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Preliminary Subsurface Investigation

**At
Wente Winery
5565 Tesla Road
Livermore, California**

**For
WENTE VINEYARDS
Livermore, California**

Clayton Project No. 70-03412.01

June 23, 2003

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July 3, 2003

Alameda County
JUL 07 2003
Environmental Health

Donna Drogos
ALAMEDA COUNTY HEALTH CARE SERVICES|
HAZARDOUS MATERIALS DIVISION
1131 Harbor Bay Parkway, 2nd Floor
Oakland, California 94502

Clayton Project No. 70-03412.01

Subject: Report of Preliminary Subsurface Investigation at Wente Winery,
5565 Tesla Road, Livermore, California

Dear Ms. Drogos:

Clayton is pleased to submit a copy of its final report: *Preliminary Subsurface Investigation at Wente Winery, 5565 Tesla Road, Livermore, California*, dated June 20, 2003. The report documents the finding of petroleum hydrocarbons in groundwater at the property listed above. Based on this finding and on behalf of Wente Vineyards, Clayton has attached an Underground Storage Tank Unauthorized Release/ Contamination Site Report.

If you have any questions, please contact me at 925-426-2679 or by email at dashton@claytongrp.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Donald A. Ashton".

Donald A. Ashton
Senior Geologist
Environmental Services

DAA/daa

cc: Daniel Stephani – Livermore Pleasanton Fire Department
Aris Krimetz – Wente Vineyards (without attachment)

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1. INTRODUCTION

Mr. Buxton L. Layton of Wente Vineyards (Wente) retained Clayton Group Services, Inc. to perform a preliminary subsurface investigation at the Wente Winery, 5565 Tesla Road, Livermore, Alameda County, California (subject property). The subsurface investigation consisted of collecting soil and groundwater samples from nine soil borings to evaluate for possible impacts from historical business activities at the property.

2. BACKGROUND

Clayton prepared a Phase I Environmental Site Assessment (ESA) report for the above-referenced subject property (Clayton Project 70-03412.00, dated November 8, 2002). Clayton identified several recognized environmental conditions (RECs) at the subject property and recommended additional investigation to further evaluate these findings.

Historical research conducted during the Phase I ESA established obvious uses of the subject property since 1907. The subject and adjacent properties have been primarily rural agricultural properties. Vineyards had been established on about half of the subject property and most of the surrounding properties over the years. The Wente Vineyards business reportedly started on the subject property in the 1880s. In 1958 the business had grown to nine buildings and has continued to expand to its present size.

It appears that most of the chemical storage and handling and maintenance activities have occurred on the southern and western portions of the property. Two fuel underground storage tanks (USTs - diesel and gasoline) were removed from the property in 1987 and were replaced with three fuel aboveground storage tanks (ASTs) at the same location with a total current capacity of 4,000 gallons. An Alameda County building department demolition permit was issued with agency oversight at the time of UST removal; however, no environmental assessment of subsurface conditions was conducted or documented to determine if fuel releases had occurred.

Historic operations have included a former steam-cleaning bay that reportedly discharged to an open ditch at the south end of the steel storage and welding shed. Maintenance of field sprayers and tractors has been and is conducted on the subject property. Petroleum wastes are handled as hazardous waste and off-hauled by a licensed contractor; however, historic practices are not documented. Agricultural chemicals have been and are stored and used on the subject property as well as on offsite vineyards.

Based on the historical use of the subject property, Clayton identified five areas of concern for investigation as follows:

1. Fuel storage and dispensing area at the former UST and current AST location,
2. Former steam-cleaning bay location where wastewater was discharged to the ground,

3. Stained soil behind the current steam-cleaning bay,
4. Bulk oil storage and shop area, and
5. Agricultural chemical storage and use areas.

3. SCOPE OF WORK

Clayton's proposal (No. 03SFOES001, approved by Wente Vineyards on March 28, 2003) recommended nine soil borings at various locations on the subject property to collect soil and groundwater samples. The scope of work for this sampling investigation consisted of pre-field activities, sampling activities, laboratory analysis, and project management and report preparation. The work performed to complete these tasks is described in the following discussion.

3.1. PRE-FIELD ACTIVITIES

The purpose of the pre-field activities was to appropriately plan the work and prepare for potential hazards at the property. Pre-field activities included the following:

- Preparing a Zone 7 Water Agency (Z7WA) drilling permit application and obtaining approval to drill. A copy of the drilling permit is presented as Appendix A.
- Preparing a Site Safety and Health Plan (SSHP) for the work to be performed. The SSHP detailed the work to be performed, safety precautions, emergency response procedures, nearest hospital information, and onsite personnel responsible for managing emergency situations. The SSHP was reviewed with field personnel and kept onsite during field activities.
- Marking borehole locations with white paint and notification of Underground Service Alert (USA) prior to performing subsurface activities, as required by law. USA issued Ticket Message Number: 132246.

3.2. SAMPLING ACTIVITIES

To address the various historic uses of the subject property, Clayton designed the sampling program presented in Table 1. The sampling program included advancing nine boreholes (B-1 through B-9) on the subject property at the sample locations shown on the attached Figure 1. Groundwater samples were collected from only two boreholes, B-1 and B-4, and submitted for laboratory analysis.

Clayton conducted sampling activities on April 18, 2003. With the exception of B-3, all borings were advanced using direct-push, Geoprobe[®] drilling equipment on a tracked vehicle. Those borings were continuously cored to log the subsurface soils and collect soil samples from the unsaturated zone. B-3 was advanced using a hand auger and hand driven soil core sampling tool due to the limited space behind the steam-cleaning bay. Soil cores were collected in a core barrel lined with a plastic sleeve. The B-3 soil samples were retrieved in 6-inch long brass sleeves. Relatively undisturbed soil cores were screened for physical evidence of contamination (e.g., odors, discoloration, and or

chemical sheen). Soils were logged for each borehole using the United Soil Classification System as a guideline. The soil type, color, and notable characteristics were logged onto exploratory boring sheets for each borehole, except for B-3, and are presented as Appendix B. The borings were advanced in open areas that were asphalt paved, had gravel surface cover, or of bare earth. Soils encountered consisted of clay, silty clay, gravelly clay, sandy silt and sandy silt with gravel, and gravelly sandy silt.

Soil samples retained for analyses were selected based on site hydrology, soil type, physical observations, or elevated organic vapor analyzer (OVA/PID) readings. Selected Geoprobe soil samples were cut from the plastic soil-core liners, sealed with Teflon tape, capped, labeled, and placed in a pre-chilled ice chest. Select soil samples were transported to a State of California-certified laboratory for analysis under formal chain-of-custody documentation.

The sample program (Table 1) was designed to evaluate the property for total petroleum hydrocarbons as fuels and motor oil (TPH scan), volatile organic compounds, and pesticides, herbicides, and select metals. For residual pesticides, herbicides and metals that were used on the southern and western portions of the property, Clayton selected near surface soil samples (0.5-1 foot bgs, except for B-8, which was at 3.5-4' bgs) from eight borehole locations. Shallow soils were also submitted for TPH analysis (boreholes B-3 and B-5) due to reported historic or observed surface stains. Deeper soil samples selected from 3.5 to 8 feet bgs were analyzed for TPH and VOCs (boreholes B-1, B-2, and B-5). Soil samples submitted for laboratory analysis were selected only from the unsaturated zone. Additional soil samples were held by the laboratory in the event that additional analyses might be required.

The soil analytical program employed sample compositing to screen the site for possible residual agricultural chemicals. Eight select near surface samples were composited 4 parts to 1 part as a cost saving method into two composite samples for laboratory analyses (Comp1345 and Comp6789). Comp1345 was selected to address the general yard operation areas and where prior vineyards existed. Comp6789 was selected to address areas where agricultural chemicals have been or are stored and handled, and also where prior vineyards existed.

To address concerns of potential groundwater impacts from the fuel storage and dispensing area and the former steam-cleaning bay, Clayton selected two locations (B-1 and B-4) to collect grab-groundwater samples. These sample locations are along the general downgradient side of the property. These boreholes were advanced into the saturated zone to depths of 12 and 20 feet bgs, respectively. A temporary one-inch outer diameter PVC casing, temporary well point, was installed into each open borehole to allow for the collection of a grab-groundwater sample. The lower five feet of the temporary well was slotted casing. The grab-groundwater samples were collected using new disposable bailers. The samples were transferred into appropriate laboratory supplied containers. The sample containers were capped/sealed, labeled with identifying information, and placed in a pre-chilled ice chest for transportation to the analytical laboratory for analysis under formal chain-of-custody documentation.

Downhole equipment was cleaned prior to advancing each boring and prior to collecting samples. Decontamination water and soil cuttings were containerized and labeled pending analytical results for determination of proper disposal methods. Once sampling was complete, borings were backfilled to the ground surface with Portland-cement grout to comply with Z7WA guidelines.

3.2.1. Fuel AST and Former UST Area

Borings B-1 and B-2 were drilled adjacent to the existing fuel ASTs. The borings were drilled on an angle under the existing tank pad (20 and 10 degrees from vertical, respectively) to evaluate the subsurface for potential releases from the current fuel aboveground storage tanks (ASTs) and from the former tank pit, reportedly in the same location below the ASTs. Boring B-1 was advanced to 12 feet below the ground surface (bgs). Groundwater was encountered at a little more than 9 feet bgs and native soil below the former UST pit was encountered at 9.8 feet bgs. The borehole was completed by installing a temporary well casing to facilitate collection of a groundwater sample. B-1 was selected for groundwater sampling as it is on the downgradient side of the fuel tanks. Clayton noted that the unsaturated soil above groundwater did not have a petroleum odor; however soil samples below the groundwater table did have a distinct petroleum hydrocarbon odor. Boring B-2 was advanced on the east corner of the ASTs to a total depth of 16 feet bgs. No petroleum hydrocarbon odor was detected in unsaturated soil cores and only a slight odor was detected in a saturated-soil sample at a depth of 14 feet bgs.

3.2.2. Steaming Cleaning Area

Borehole B-3 was advanced between the steam-cleaning bay building and perimeter fence in an area of limited access. Therefore, the borehole was advanced using hand-auger equipment next to the building where oily-stained soils from the steam-cleaning operation existed. The borehole was advanced to a total depth of 4-feet bgs. Soil samples were collected from 0.5-1.0 feet and from 3.5-4.0 feet. No petroleum hydrocarbon odors were noted in the soil samples.

3.2.3. Former Steaming-Cleaning Area

Borehole B-4 was advanced at the southwest corner of a concrete pad that exists along the south side of the steel storage shed. Aris Krimetz, Corporate Engineer for Wente, stated that the concrete pad was the former location of the steaming-clean bay and that former discharges collected in an open ditch in the area where borehole B-4 was located. The borehole was advanced to a total depth of 20 feet bgs and a temporary well point was installed. The soil core samples were noted to be primarily clay. The borehole was found to be dry at the time of completion, but after about 2 hours sufficient groundwater collected for sampling.

3.2.4. Shop and Bulk Petroleum Storage Area

Borehole B-5 was located on the west side of the maintenance shop by a shop door near the bulk oil storage container. Based on Mr. Krimetz' recollection, the borehole was located in the general area where oil drums were previously stored.

3.2.5. Agricultural Chemical Use Areas

Eight near-surface soil samples were composited into two samples (Comp1345 and Comp6789) to screen the property for possible residual agricultural chemicals. Boreholes B-1 and B-3 through B-5 selected to analyze the specific areas discussed above, were also selected as a composite set to screen the operations area of the property for possible agricultural chemical residues. The additional boreholes B-6, B-7, and B-8 were located just outside of warehouses and garages that are or have reportedly been used to store agricultural chemicals. B-9 was advanced in a gravel-covered parking lot south of the winery in an area used for former vineyards. The additional boreholes were advanced to a total depth of 8 feet bgs and did not encounter saturated soils or soils with notable petroleum hydrocarbon odors.

3.3. LABORATORY ANALYSES

Clayton submitted 13 soil and 2 grab-groundwater samples to a state certified laboratory, McCampbell Analytical, Inc. of Pacheco, California, for analysis. Select samples were analyzed by the following United States Environmental Protection Agency (USEPA) approved analytical methods:

- USEPA Method 8015 – Modified for a Total Petroleum Hydrocarbons Scan for gasoline, diesel, and motor oil (TPH-G, -D, & -MO).
- USEPA Method 8260 – Volatile Organic Compounds that include fuel aromatics and oxygenates (VOCs)
- Solid Waste Series 6000 and 7000 analyses for five total metals (Cd, Cr, Ni, Pb, and Zn) listed in the Leaking Underground Fuel Tank manual (LUFT Metals),
- USEPA Method 8080 for Organochlorine Pesticides (OCP),
- USEPA Method 8141 analyses for Organophosphorus Pesticides (OPP),
- USEPA Method 8151 analyses for Chlorinated Herbicides (CH),
- Solid Waste Series 6000 and 7000 analyses for total arsenic and lead (As & Pb).

The sample program outlined in Table 1 shows the select analytical method chosen for each submitted sample.

4. ANALYTICAL RESULTS

A summary of soil analytical results is presented in Tables 2 and 3 and a summary of groundwater analytical results is presented in Table 4 and on Figure 2. The laboratory analytical data sheets and chain-of-custody forms are included in Appendix C.

4.1. FUEL AST AND FORMER UST AREA

The soil samples from boreholes B-1 and B-2 were found to contain TPH concentrations. Sample B-1 at 7.5-8.0 feet was found to contain TPH-G ranged compounds at 24 mg/Kg, TPH-D at 44 milligrams per kilogram (mg/Kg) (the laboratory reported that gasoline ranged compounds were noted to be significant in the diesel ranged results), and no detectable TPH-MO. No benzene or MTBE were detected in soil sample B-1; however, other volatile compounds typical of fuels were found to total 6,470 micrograms per kilogram (ug/Kg). Sample B-2 at 7.5-8.0 feet had no detectable TPH-G but had low concentrations of TPH-D at 1.7 mg/Kg and TPH-MO at 7.5 mg/Kg. No VOCs were detected in the B-2 soil sample.

The groundwater sample from borehole B-1 (B-1W) contained significant concentrations of TPH-G at 200,000 ug/L and TPH-D at 150,000 ug/L. No TPH-MO was reported in sample B-1W. VOCs in groundwater were also significant in sample B-1W. Benzene was reported at 2,100 ug/L and other VOCs totaled 90,300 ug/L. No MTBE was reported in sample B-1W but the laboratory had to dilute the sample for analysis.

4.2. STEAM-CLEANING AREA

Soil results from borehole B-3 found no detectable TPH or VOCs in the two samples submitted for analysis. Metal concentrations were found to be within normal background concentrations.

4.3. FORMER STEAM-CLEANING AREA

The soil sample results for borehole B-4 had no reportable TPH or VOCs. Metals results were within normal background concentrations. The grab-groundwater sample B-4W contained TPH-G at 74 ug/L, TPH-D at 180 ug/L, and TPH-MO at 370 ug/L. The water sample contained no benzene but did contain other volatile compounds typical of gasoline that totaled 27.28 ug/L. Sample B-4W also contained chloroform at 1.2 ug/L. The finding of chloroform at a low concentration, a compound not typically found in gasoline, is believed to be an artifact of either the laboratory analytical process or from an onsite potable water supply that may have impacted the shallow groundwater table.

4.4. SHOP AND BULK OIL STORAGE AREA

Soil sample results for sample B-5 at 0.5-1.0 feet had detectable TPH-G at 1.2 mg/Kg, TPH-D at 33 mg/Kg, and TPH-MO at 190 mg/Kg. However, a slightly deeper sample (3.5-4.0 feet) contained no detectable VOCs.

4.5. AGRICULTURAL CHEMICAL USE AREAS

The two composite samples analyzed contained low concentrations of residual agricultural chemicals. Sample Comp1345 was found to have reportable concentrations of organochlorine pesticides as DDD, DDE, and DDT (1.4, 3.3, and 8.8 ug/Kg, respectively). Sample Comp6789 only had reportable concentrations of a-Chlordane at 6.2 ug/Kg and g-Chlordane at 6.8 ug/Kg. No organophosphorus pesticides or chlorinated organic herbicides were detected in either sample analyzed. Comp6789 was also analyzed for arsenic and lead. No arsenic was detected and lead was detected at 9.4 mg/Kg, a typical background concentration.

5. CONCLUSIONS

The preliminary investigation results indicate that fuel, primarily gasoline, apparently has been released in the fuel storage and dispensing area on the property and has impacted groundwater. The finding of TPH compounds in soil samples B-1 and B-2 may be a result of groundwater contamination that has impacted the fringe zone above the groundwater table. The soil sample analyzed from B-2, only about 25 feet to the east in an upgradient direction, was found to contain very low concentrations of TPH, primarily in the motor oil range with no detectable gasoline or VOCs, indicating that the fuel release was in the tank area.

Sample results for borehole B-4 indicate no residual TPH or VOCs in the soil; however the grab-groundwater sample was found to contain TPH ranged compounds from gasoline to motor oil and various VOCs that are typical components of gasoline. The TPH concentrations detected are slightly above Risk Based Screening Levels (RBSLs) established by the Regional Water Quality Control Board (RWQCB). TPH at these concentrations can impair the use of the local aquifer for beneficial uses.

The finding of low concentrations of TPH in a shallow soil sample at location B-5 suggests some residual petroleum hydrocarbons exist in surficial soils in the area of the maintenance shop and the oil storage container. However, a slightly deeper sample at 3.5-4 feet bgs contained no detectable VOCs; therefore, the finding indicates de-minimis residual TPH concentrations at this location, below RBSLs.

Analytical results for pesticides, herbicides, and metals related to agricultural chemicals in samples Comp1345 and Comp6789 do not indicate that any significant residual concentrations exist in shallow soils from historic or current use and storage of agricultural chemicals. The findings of DDT and daughter degradation compounds and chlordane are well below the established RBSLs.

6. RECOMMENDATIONS

The finding of gasoline-ranged compounds in sample B-1W indicates that a fuel release has occurred on the property, most likely in the immediate area of the fuel storage tanks.

The impact to groundwater should be further investigated to characterize the extent of the impact.

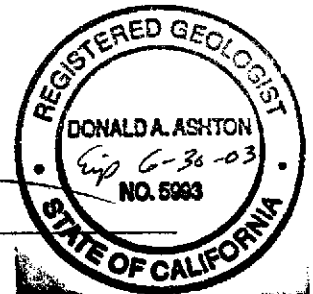
TPH impacts to groundwater at borehole B-4 slightly exceed RBSLs, but the analytical results indicate a source different than the fuel tank area, most likely the former steam-cleaning bay. Additional sampling is recommended in this area to determine if these concentrations are significant and require mitigation.

Clayton recommends that the findings from this investigation be forwarded to the local oversight agency (Z7WA) for review and comment. Disclosure of the data is also a requirement of the drilling permit. The Zone 7 Water Agency regulates the local groundwater Mocho Subbasin that is used as a drinking water source.

7. LIMITATIONS

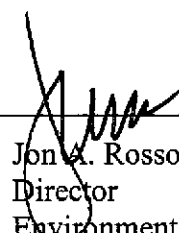
The information and opinions included in this report were given in response to a specific scope of work and should be considered and implemented only in light of that particular scope of work. The services provided by Clayton in completing this project have been provided in a manner consistent with the normal standards of the profession. No other warranty, expressed or implied, is made.

This report was prepared by:



Donald A. Ashton, R.G., R.E.A.
Senior Geologist
Environmental Services

This report was reviewed by:



Jon A. Rosso
Director
Environmental Services
San Francisco Regional Office

June 23, 2003

Table 1
Summary of Sampling and Analytical Program
Wente Winery, Livermore, CA

Boring ID	Depth	Analytical Methods			Organochlorine Pesticides	Organophosphorus Pesticides	Chlorinated Herbicides	Total Metals As & Pb
		TPH Scan	VOCs	LUFT Metals				
SOIL								
B-1	0.5 - 1'				Comp1345	Comp1345	Comp1345	
	7.5 - 8'	X	X					
B-2	7.5 - 8'	X	X					
B-3	0.5 - 1'	X		X	Comp1345	Comp1345	Comp1345	
	3.5 - 4'		X					
B-4	0.5 - 1'	X		X	Comp1345	Comp1345	Comp1345	
	7.5 - 8'		X					
B-5	0.5 - 1'	X		X	Comp1345	Comp1345	Comp1345	
	3.5 - 4'		X					
B-6	0.5 - 1'				Comp6789	Comp6789	Comp6789	Comp6789
B-7	0.5 - 1'				Comp6789	Comp6789	Comp6789	Comp6789
B-8	3.5 - 4'				Comp6789	Comp6789	Comp6789	Comp6789
B-9	0.5 - 1'				Comp6789	Comp6789	Comp6789	Comp6789
GROUNDWATER								
B-1		X	X					
B-4		X	X					
Total Analyses:		7	7	3	2	2	2	1

Table 2
Summary of Soil Analytical Results: TPH, VOCs, and Metals
Wente Winery, Livermore, CA

Analytical Method	Analyte	Units	Sample ID, Depth (Feet), & Date								RBSLs Industrial
			B-1 7.5-8' 4/18/03	B-2 7.5-8' 4/18/03	B-3 0.5-1' 4/18/03	B-3 3.5-4' 4/18/03	B-4 0.5-1' 4/18/03	B-4 7.5-8' 4/18/03	B-5 0.5-1' 4/18/03	B-5 3.5-4' 4/18/03	
Total Petroleum Hydrocarbons (EPA 8015M)	TPH-Gasoline	ug/Kg	24	<1.0	<1.0	--	<1.0	--	1.2	--	100
	TPH-Diesel	mg/Kg	44	1.7	<1.0	--	<1.0	--	33	--	100
	TPH-Motor Oil	mg/Kg	<5.0	7.5	<5.0	--	<5.0	--	190	--	1000
Volatile Organic Compounds (EPA 8260B)	MTBE	ug/Kg	<100	<5.0	--	<5.0	--	<5.0	--	<5.0	28
	Benzene	ug/Kg	<100	<5.0	--	<5.0	--	<5.0	--	<5.0	45
	Toluene	ug/Kg	<100	<5.0	--	<5.0	--	<5.0	--	<5.0	2.6
	Ethylbenzene	ug/Kg	140	<5.0	--	<5.0	--	<5.0	--	<5.0	2,500
	Xylenes	ug/Kg	210	<5.0	--	<5.0	--	<5.0	--	<5.0	1.0
	Naphthalene	ug/Kg	560	<5.0	--	<5.0	--	<5.0	--	<5.0	4.3
	1,2,4-Trimethylbenzene	ug/Kg	3,400	<5.0	--	<5.0	--	<5.0	--	<5.0	NE
	sec-Butyl benzene	ug/Kg	150	<5.0	--	<5.0	--	<5.0	--	<5.0	NE
	Isopropylbenzene	ug/Kg	100	<5.0	--	<5.0	--	<5.0	--	<5.0	NE
	n-Propyl benzene	ug/Kg	610	<5.0	--	<5.0	--	<5.0	--	<5.0	NE
1,3,5-Trimethylbenzene	ug/Kg	1,300	<5.0	--	<5.0	--	<5.0	--	<5.0	NE	
LUFT Total Metals (SW Series 6000, 7010)	Cadmium	mg/Kg	--	--	<0.5	--	<0.5	--	<0.5	--	12
	Chromium	mg/Kg	--	--	69	--	60	--	52	--	750
	Lead	mg/Kg	--	--	7.9	--	8.0	--	41.0	--	750
	Nickel	mg/Kg	--	--	180	--	160	--	150	--	150
	Zinc	mg/Kg	--	--	99	--	54	--	57	--	600

Notes:

ug/kg = micrograms per kilogram

mg/kg = milligrams per kilogram

-- = Not analyzed

<x = Analyte not detected at or above detection limit of x.

RBSLs = Risk Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater, RWQCB, Interim Final - December 2001, Table A.

NE = Not established

Table 3
Summary of Soil Analytical Results: Pesticides, Herbicides and Metals
Wente Winery, Livermore, CA

Analytical Method	Analyte	Units	Sample ID & Date		RBSLs Industrial
			Comp1345 4/18/03	Comp6789 4/18/03	
Organochlorine Pesticides (EPA 8080)	a-Chlordane	ug/Kg	<1.0	6.2	2,900
	g-Chlordane	ug/Kg	<1.0	6.8	2,900
	p,p-DDD	ug/Kg	1.4	<5.0	17,000
	p,p-DDE	ug/Kg	3.3	<5.0	4,000
	p,p-DDT	ug/Kg	8.8	<5.0	4,000
Organophosphorus Pesticides (EPA 8081)	Herbicides	ug/Kg	ND	ND*	NE
Chlorinated Organic Herbicides (EPA 8151)	Herbicides	ug/Kg	ND*	ND*	NE
Total Metals (SW Series 7010)	Arsenic	mg/Kg	--	<2.5	2.7
	Lead	mg/Kg	--	9.4	750

Notes:

ug/kg = micrograms per kilogram

mg/kg = milligrams per kilogram

<x = Analyte not detected at or above detection limit of x.

ND = No Analytes Detected.

ND* = No analytes detected; however, elevated detection levels due to sample dilution

-- = Not analyzed

RBSLs = Risk Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater, RWQCB, Interim Final - December 2001

Table A.

NE = Not established

Table 4
Summary of Grab-Groundwater Analytical Results - TPH and VOCs
Wente Winery, Livermore, CA

Category	Chemical	Units	Sample ID & Date		RBSLs Industrial
			B-1W 4/18/03	B-4W 4/18/03	
Total Petroleum Hydrocarbons (EPA 8015M)	TPH-Gasoline	ug/L	200,000	74	100
	TPH-Diesel	ug/L	150,000	180	100
	TPH-Motor Oil	ug/L	<5,000	370	100
Volatile Organic Compounds (EPA 8260B)	MTBE	ug/L	<1000	<0.5	5.0
	Benzene	ug/L	2,100	<0.5	1.0
	Toluene	ug/L	34,000	5.1	40
	Ethylbenzene	ug/L	5,900	2.0	30
	Xylenes	ug/L	31,000	12	13
	n-Butyl benzene	ug/L	1,300	<0.5	NE
	tert-Butyl benzene	ug/L	<1000	0.51	NE
	chloroform	ug/L	<1000	1.2	28
	Naphthalene	ug/L	1,800	1.3	21
	1,2,4-Trimethylbenzene	ug/L	9,900	4.0	NE
	sec-Butyl benzene	ug/L	<1000	<0.5	NE
	Isopropylbenzene	ug/L	<1000	<0.5	NE
n-Propyl benzene	ug/L	1,100	0.67	NE	
1,3,5-Trimethylbenzene	ug/L	3,300	1.7	NE	

Notes:

ug/L = micrograms per liter

<x = Analyte not detected at or above detection limit of x.

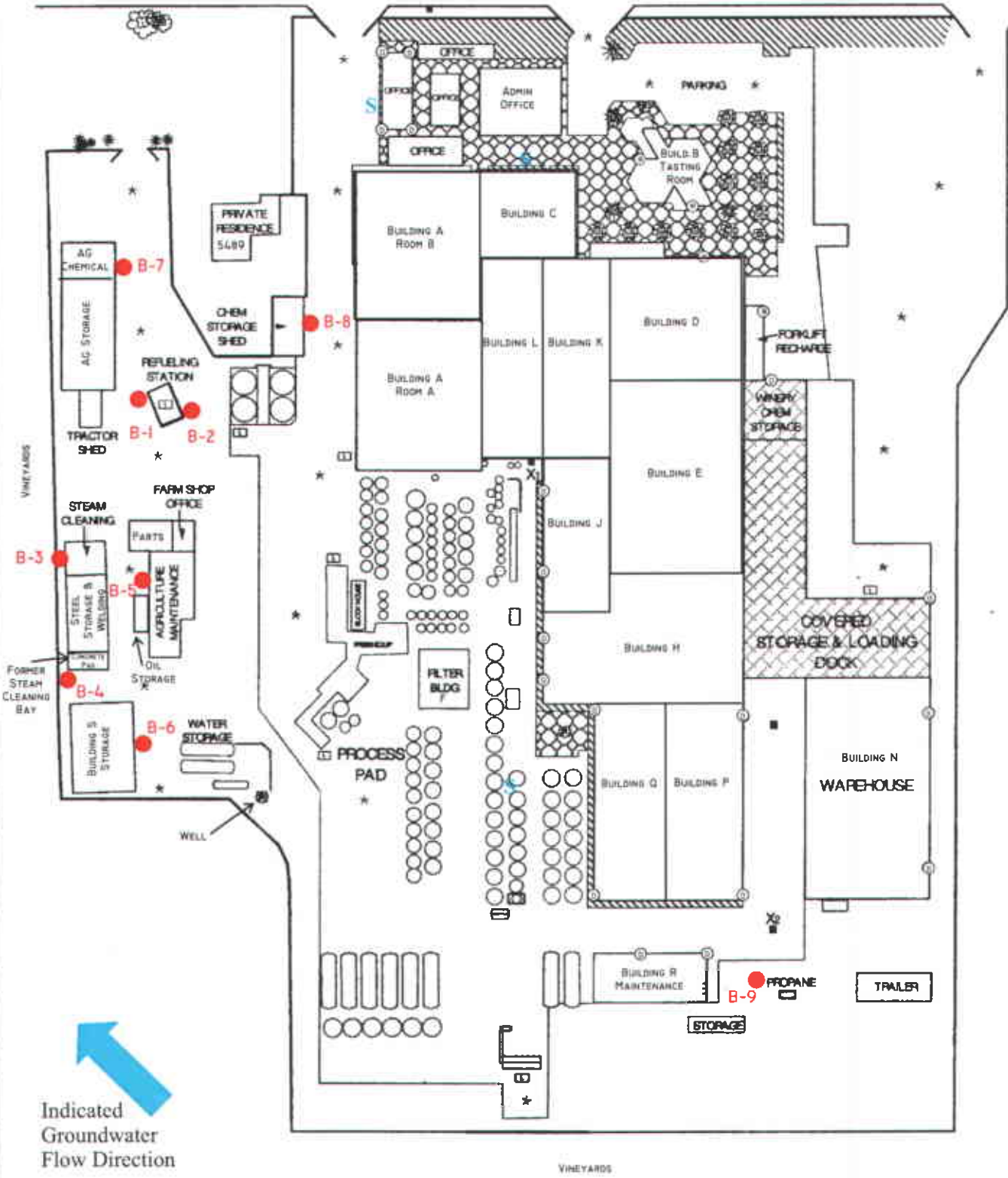
RBSLs = Risk Based Screening Levels and Decision Making to Sites with Impacted Soil and Groundwater, RWQCB

Interim Final - December 2001, Table A

NE = Not established

VINEYARDS

TESLA ROAD



Indicated
Groundwater
Flow Direction

LEGEND

- Soil Boring Location
- S Septic Tank

100 FEET Scale

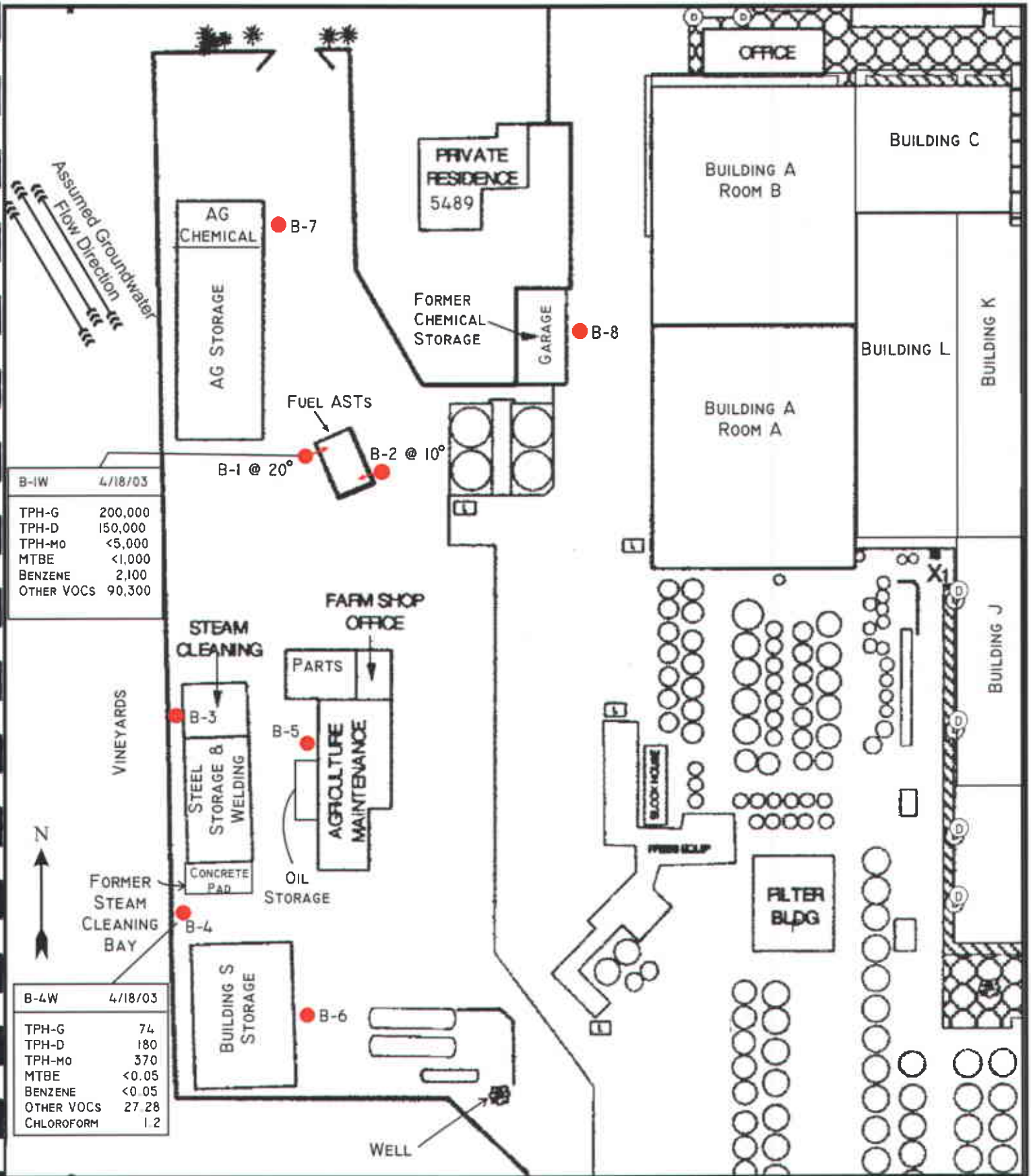
SAMPLE LOCATION MAP

Wente Winery
5565 Tesla Road
Livermore, California
Clayton Project No. 70-03412.01

FIGURE

1





LEGEND

- Soil Boring Vertical
 - Angled Soil Boring Degrees from Vertical
- 1" = 55'
SCALE

GROUNDWATER RESULTS - TPH and VOCs

Wente Winery
5489 & 5565 Tesla Road
Livermore, California
Clayton Project No. 70-003412.01

FIGURE

2



APPENDIX A
DRILLING PERMIT



ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588-5127 VOICE (925) 484-2600 X235 FAX (925) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 5565 TESLA ROAD
LIVERMORE, CA 94550
WENTE WINERY

PERMIT NUMBER 23039
WELL NUMBER _____
APN 99A 2340 004 01

California Coordinates Source _____ ft. Accuracy ± _____ ft.
CCN _____ ft. CCE _____ ft.
APN 99A-2340-004-01

PERMIT CONDITIONS

Circled Permit Requirements Apply

CLIENT Name WENTE WINERY
Address 5565 TESLA RD Phone 925-456-2300
City LIVERMORE, CA Zip 94550

- (A) GENERAL
 1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
 2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
 3. Permit is void if project not begun within 90 days of approval date.

APPLICANT Name DONALD ASHTON
CLAYTON GROUP SERVICES Fax 925-426-0106
Address 6920 KOLL CENTER PKWY Phone 925-426-2679
City PLEASANTON, CA Zip 94566

- B. WATER SUPPLY WELLS
 1. Minimum surface seal diameter is four inches greater than the well casing diameter.
 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
 3. Grout placed by tremie.
 4. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
 5. A sample port is required on the discharge pipe near the wellhead.

TYPE OF PROJECT
Well Construction Geotechnical Investigation
Cathodic Protection General
Water Supply Contamination
Monitoring Well Destruction

- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
 1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
 3. Grout placed by tremie.

PROPOSED WATER SUPPLY WELL USE
New Domestic Replacement Domestic
Municipal Irrigation
Industrial Other _____

- (D) GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

DRILLING METHOD:
Mud Rotary Air Rotary Auger
Cable Other GEOPROBE

- E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

DRILLER'S LICENSE NO. _____

- F. WELL DESTRUCTION. See attached.
- (G) SPECIAL CONDITIONS: Submit to Zone 7 within 60 days after completion of permitted work the well installation report including all soil and water laboratory analysis results.

WELL PROJECTS
Drill Hole Diameter _____ in. Maximum _____
Casing Diameter _____ in. Depth _____ ft.
Surface Seal Depth _____ ft. Number _____

GEOTECHNICAL PROJECTS
Number of Borings 9 Maximum _____
Hole Diameter 2 in. Depth 14 ft.

ESTIMATED STARTING DATE 4-16-03
ESTIMATED COMPLETION DATE 4-16-03

SEE ATTACHED SAMPLE LOCATION MAP

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Donald Ashton Date 4-8-2003

Approved Wyman Hong Date 4/9/03
Wyman Hong

APPENDIX B
LOGS OF EXPLORATORY BORINGS



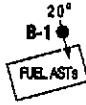
LOG OF EXPLORATORY BORING

PROJECT NO.: 70-03412.01 DATE: 4/18/03
 CLIENT: WENTE WINERY
 LOCATION: 5565 TESLA ROAD, LIVERMORE, CA
 LOGGED BY: D. ASHTON DRILLER: GREGG

BORING NO. B-1
 Sheet 1 of 1

Field location of boring:

AG STORAGE



Drilling Method: GEOPROBE Drill Rig Model: MARL M5T Hole Dia.: 2 IN.

Boring Completion Data:

ANGLE BORING UNDER PAD @ 20° FROM VERTICAL, TEMPORARY

WELL CASING 1", REMOVED AFTER SAMPLING, SEALED WITH

PORTLAND CEMENT GROUT TO SURFACE

Ground Elev.:

Datum:

PID (ppm)	Recovery (ft./ft.)	Depth	Sample Interval	Soil Group Symbol (USCS)	Litho-graphic Symbol	Depth To		Time		DESCRIPTION	
						▽	▽	Time	Date		
		1	X	ML			9.1	12:50		SANDY SILT WITH GRAVEL, OLIVE BROWN, FINES 50%, SAND FINE-TO-COARSE 30-40%, GRAVEL 10-20%, DRY, LOOSE, NO ODOR, GRAVEL TO 1.5"	
		2	X								
		3									
	2/4	4	X								
		5									
		6									
0.9		7	B								
	3.8/4	8	X								
		9	▽								
		10	X			CL					
		11									
	4/4	12								WET @ 12 FT.	
		13							BORING TERMINATED @ 12 FT.		
		14									
		15									
		16									
		17									
		18									
		19									



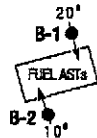
LOG OF EXPLORATORY BORING

PROJECT NO.: 70-03412.01 DATE: 4/18/03
 CLIENT: WENTE WINERY
 LOCATION: 5565 TESLA ROAD, LIVERMORE, CA
 LOGGED BY: D. ASHTON DRILLER: GREGG

BORING NO.
B-2
 Sheet 1
 of 1

Field location of boring:

AG STORAGE



Ground Elev.: _____

Datum: _____

Drilling Method: GEOPROBE Drill Rig Model: MARL M5T Hole Dia.: 2 IN.

Boring Completion Data:

ANGLE BORING UNDER PAD @ 10° FROM VERTICAL, SEALED WITH PORTLAND CEMENT GROUT

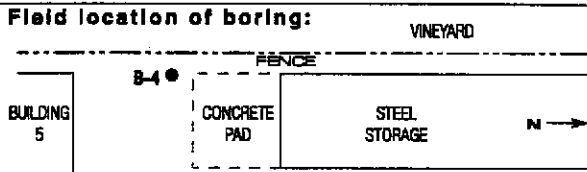
PID (ppm)	Recovery (ft./ft.)	Depth	Sample Interval	Soil Group Symbol (USCS)	Litho-graphic Symbol	Depth To		DESCRIPTION	
						Time	Date	Time	Date
		1		SM		8.6	10:00		GRAVEL AND SILT SANDY SILT WITH GRAVEL, OLIVE BROWN, FINES 50%, NON-PLASTIC, SAND FINE-TO-COARSE 30-40%, GRAVEL 10-20% TO 1"+, DRY TO DAMP, NO ODOR
		2							
		3							
	0.14	4		ML					
		5							
		6							
		7	X						
0.5		8	B						
	3/4	8	X						
		9							@ 8.9-9.2 FT. CRUSHED BRICK DEBRIS (FILL) IN GRAVELLY SAND, WET, NO HYDROCARBON ODOR
		10	X						SILTY CLAY, OLIVE BROWN, 100% FINES, PLASTIC, STIFF TO FIRM, MOIST TO DAMP
		11							
	4/4	12		CL					
		13							
		14							@ 14 FT. SLIGHT HYDROCARBON ODOR
		15							
9.5		16							@ 16 FT. NO HYDROCARBON ODOR
		17							BORING TERMINATED @ 16 FT.
		18							
		19							



LOG OF EXPLORATORY BORING

PROJECT NO.: 70-03412.01 DATE: 4/18/03
 CLIENT: WENTE WINERY
 LOCATION: 5565 TESLA ROAD, LIVERMORE, CA
 LOGGED BY: D. ASHTON DRILLER: GREGG

BORING NO.
B-4
 Sheet 1
 of 1



Drilling Method: GEOPROBE Drill Rig Model: MARL M5T Hole Dia.: 2 IN.

Boring Completion Data:
 TEMPORARY WELL CASING, REMOVED AFTER SAMPLING GROUNDWATER,
 SEALED WITH PORTLAND CEMENT GROUT TO SURFACE

Ground Elev.: Datum:

PID (ppm)	Recovery (ft./ft.)	Depth	Sample Interval	Soil Group Symbol (USCS)	Litho-graphic Symbol	Depth To		Time		Date	DESCRIPTION		
						ND	12.3	10:49	12:40				
		1	X	CL							SILTY CLAY, WITH TRACE GRAVEL, DARK BROWN, DAMP TO MOIST, FINES 90-100%, TRACE SAND 0-5%, TRACE GRAVEL TO 1" 0-5%, NO ODOR		
		2	X										
		3											
	2/4	4											
		5											
		6											
0.5		7	B										
	4/4	8	X										
		9		CL							CLAY, OLIVE BROWN, MOTTLED IN PLACES, 100% FINES, MOIST TO WET, NO ODOR		
		10											
		11											
	4/4	12	X										
		13											
		14											
		15											
	4/4	16											
		17											
		18											
		19											
4/4		20											

BORING TERMINATED @ 20 FT.

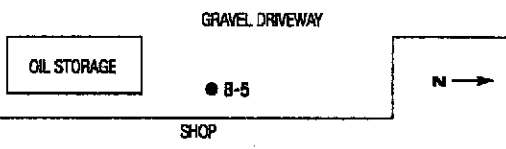


LOG OF EXPLORATORY BORING

PROJECT NO.: 70-03412.01 DATE: 4/18/03
 CLIENT: WENTE WINERY
 LOCATION: 5565 TESLA ROAD, LIVERMORE, CA
 LOGGED BY: D. ASHTON DRILLER: GREGG

BORING NO.
B-5
 Sheet 1
 of 1

Field location of boring:



Drilling Method: GEOPROBE Drill Rig Model: MARL M5T Hole Dia.: 2 IN.

Boring Completion Data:
SEALED WITH PORTLAND CEMENT GROUT

Ground Elev.: _____ Datum: _____

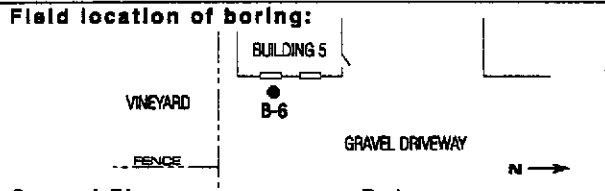
PID (ppm)	Recovery (ft./ft.)	Depth	Sample Interval	Soil Group Symbol (USCS)	Litho-graphic Symbol	Depth To	NO	Depth To		
						Time		Time		
						Date		Date		
						DESCRIPTION				
		1	X	ML		SANDY SILT, WITH GRAVEL, DARK BROWN, FINES 60%, SAND 35-40%, GRAVEL 0-5% TO 1"+, DRY				
		2								
		3								
	5.5/4	4	X	ML		GRAVELLY SANDY SILT, BROWN, FINES 50%, SAND 30%, GRAVEL 20%, DRY				
		5								
		6								
		7								
	3/4	8	X			BORING TERMINATED @ 8 FT.				
		9								
		10								
		11								
		12								
		13								
		14								
		15								
		16								
		17								
		18								
		19								



LOG OF EXPLORATORY BORING

PROJECT NO.: 70-03412.01 DATE: 4/18/03
 CLIENT: WENTE WINERY
 LOCATION: 5565 TESLA ROAD, LIVERMORE, CA
 LOGGED BY: D. ASHTON DRILLER: GREGG

BORING NO.
B-6
 Sheet 1
 of 1



Drilling Method: GEOPROBE Drill Rig Model: MARL M5T Hole Dia.: 2 IN.

Boring Completion Data:
SEALED WITH PORTLAND CEMENT GROUT

Ground Elev.: _____ Datum: _____

PID (ppm)	Recovery (ft./ft.)	Depth	Sample Interval	Soil Group Symbol (USCS)	Litho-graphic Symbol	Depth To		DESCRIPTION	
						Time	ND		Time
				SM	[Symbol]			GRAVEL AND SILT, 0-3"	
		1	X	CL	[Symbol]			GRAVELLY CLAY, DARK BROWN, FINES 80%, SAND 20%, TRACE GRAVEL TO 1"	
		2							
0.4		3	B	CL	[Symbol]			SILTY CLAY, BROWN, FINES 90-100%, SAND 0-10%, TRACE GRAVEL, MOST TO DRY, NO ODOR	
	4/4	4	X						
		5							
		6							
		7							
	4/4	8	X					BORING TERMINATED @ 8 FT.	
		9							
		10							
		11							
		12							
		13							
		14							
		15							
		16							
		17							
		18							
		19							

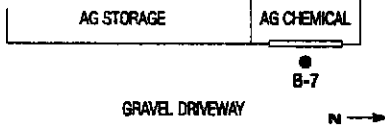


LOG OF EXPLORATORY BORING

PROJECT NO.: 70-03412.01 DATE: 4/18/03
 CLIENT: WENTE WINERY
 LOCATION: 5565 TESLA ROAD, LIVERMORE, CA
 LOGGED BY: D. ASHTON DRILLER: GREGG

BORING NO.
B-7
 Sheet 1 of 1

Field location of boring:



Drilling Method: GEOPROBE Drill Rig Model: MARL M5T Hole Dia.: 2 IN.

Boring Completion Data:
SEALED WITH PORTLAND CEMENT GROUT

Ground Elev.: Datum:

PID (ppm)	Recovery (ft./ft.)	Depth	Sample Interval	Soil Group Symbol (USCS)	Litho-graphic Symbol	Depth To		DESCRIPTION			
						Time	Date	Time	Date		
				SM	lo lo lo lo lo				GRAVEL AND SILT, 0-3"		
		1	X	ML					GRAVELLY SANDY SILT, OLIVE BROWN, FINES 50%, NON-PLASTIC SAND 30-40%, FINE-TO-COARSE GRAVEL 10-20%, DRY, NO ODOR		
		2									
		3									
	3.2/4	4	X								
		5									@ 5 FT. GRAVEL TRACE
		6									
		7									
	1.5/4	8	X								BORING TERMINATED @ 8 FT.
		9									
		10									
		11									
		12									
		13									
		14									
		15									
		16									
		17									
		18									
		19									

APPENDIX C
**LABORATORY ANALYTICAL DATA SHEETS AND CHAIN-OF-
CUSTODY RECORDS**



McC Campbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
<http://www.mcccampbell.com> E-mail: main@mcccampbell.com

Clayton Group Services 6920 Koll Center Pkwy, Ste. 216 Pleasanton, CA 94566	Client Project ID: #70-03412.01; Wente	Date Sampled: 04/18/03
		Date Received: 04/18/03
	Client Contact: Donald Ashton	Date Reported: 04/28/03
	Client P.O.:	Date Completed: 04/28/03

WorkOrder: 0304304

April 28, 2003

Dear Donald:

Enclosed are:

- 1). the results of 11 analyzed samples from your #70-03412.01; Wente project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions please contact me. McC Campbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly

Angela Rydelius, Lab Manager



McC Campbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
 Telephone : 925-798-1620 Fax : 925-798-1622
<http://www.mcccampbell.com> E-mail: main@mcccampbell.com

Clayton Group Services 6920 Koll Center Pkwy, Ste. 216 Pleasanton, CA 94566	Client Project ID: #70-03412.01; Wente	Date Sampled: 04/18/03
		Date Received: 04/18/03
	Client Contact: Donald Ashton	Date Extracted: 04/18/03
	Client P.O.:	Date Analyzed: 04/19/03-04/21/03

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*

Extraction method: SW5030B

Analytical methods: SW8015Cm

Work Order: 0304304


Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
001D	B-1 7.5-8.0	S	24,b	2	96.4
003A	B-2 7.5-8'	S	ND	1	98.8
005B	B-4 0.5-1.0	S	ND	1	100
007B	B-5 0.5-1.0	S	1.2,g	1	101
011B	B-3 0.5-1.0'	S	ND	1	99.5

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S	1.0	mg/Kg

*water and vapor samples are reported in µg/L, soil and sludge samples in mg/kg, wipe samples in µg/wipe, and TCLP extracts in µg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

 Angela Rydelius, Lab Manager



McC Campbell Analytical Inc.

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 Telephone : 925-798-1620 Fax : 925-798-1622
 http://www.mcccampbell.com E-mail: main@mcccampbell.com

Clayton Group Services 6920 Koll Center Pkwy, Ste. 216 Pleasanton, CA 94566	Client Project ID: #70-03412.01; Wente	Date Sampled: 04/18/03
		Date Received: 04/18/03
	Client Contact: Donald Ashton	Date Extracted: 04/22/03-04/23/03
	Client P.O.:	Date Analyzed: 04/22/03-04/23/03

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*

Extraction method: SW5030B

Analytical methods: SW8015Cm

Work Order: 0304304

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
012B	B-4 W	W	74,b,i	1	99.5
013B	B-1W	W	200,000,a,h,i	200	98.7

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

*water and vapor samples are reported in µg/L, soil and sludge samples in mg/kg, wipe samples in µg/wipe, and TCLP extracts in µg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.



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Clayton Group Services 6920 Koll Center Pkwy, Ste. 216 Pleasanton, CA 94566	Client Project ID: #70-03412.01; Wente	Date Sampled: 04/18/03
		Date Received: 04/18/03
	Client Contact: Donald Ashton	Date Extracted: 04/18/03
	Client P.O.:	Date Analyzed: 04/20/03-04/21/03

Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel and Motor Oil*

Extraction method: SW3550C

Analytical methods: SW8015C

Work Order: 0304304


Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0304304-001D	B-1 7.5-8.0	S	44,d	ND	1	108
0304304-003A	B-2 7.5-8'	S	1.7,g	7.5	1	103
0304304-005B	B-4 0.5-1.0	S	ND	ND	1	100
0304304-007B	B-5 0.5-1.0	S	33,g	190	1	103
0304304-011B	B-3 0.5-1.0'	S	ND	ND	1	100
0304304-012B	B-4 W	W	180,g,b,i	370	1	105
0304304-013B	B-1W	W	150,000,d,h,i	ND<5000	20	--#

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	250	µg/L
	S	1.0	5.0	mg/Kg

* water and vapor samples are reported in µg/L, wipe samples in ug/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all TCLP / STCL / SPLP extracts in µg/L

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent / mineral spirit.

 Angela Rydelius, Lab Manager



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 Telephone : 925-798-1620 Fax : 925-798-1622
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Clayton Group Services 6920 Koll Center Pkwy, Ste. 216 Pleasanton, CA 94566	Client Project ID: #70-03412.01; Wente	Date Sampled: 04/18/03
		Date Received: 04/18/03
	Client Contact: Donald Ashton	Date Extracted: 04/18/03
	Client P.O.:	Date Analyzed: 04/23/03-04/24/03

Volatiles Organics + Oxygenates by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0304304

Lab ID	0304304-001D
Client ID	B-1 7.5-8.0
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<1000	20	50	tert-Amyl methyl ether (TAME)	ND<100	20	5.0
Benzene	ND<100	20	5.0	Bromobenzene	ND<100	20	5.0
Bromochloromethane	ND<100	20	5.0	Bromodichloromethane	ND<100	20	5.0
Bromoform	ND<100	20	5.0	Bromomethane	ND<100	20	5.0
2-Butanone (MEK)	ND<200	20	10	t-Butyl alcohol (TBA)	ND<500	20	25
n-Butyl benzene	ND<100	20	5.0	sec-Butyl benzene	150	20	5.0
tert-Butyl benzene	ND<100	20	5.0	Carbon Disulfide	ND<100	20	5.0
Carbon Tetrachloride	ND<100	20	5.0	Chlorobenzene	ND<100	20	5.0
Chloroethane	ND<100	20	5.0	2-Chloroethyl Vinyl Ether	ND<100	20	5.0
Chloroform	ND<100	20	5.0	Chloromethane	ND<100	20	5.0
2-Chlorotoluene	ND<100	20	5.0	4-Chlorotoluene	ND<100	20	5.0
Dibromochloromethane	ND<100	20	5.0	1,2-Dibromo-3-chloropropane	ND<100	20	5.0
1,2-Dibromoethane (EDB)	ND<100	20	5.0	Dibromomethane	ND<100	20	5.0
1,2-Dichlorobenzene	ND<100	20	5.0	1,3-Dichlorobenzene	ND<100	20	5.0
1,4-Dichlorobenzene	ND<100	20	5.0	Dichlorodifluoromethane	ND<100	20	5.0
1,1-Dichloroethane	ND<100	20	5.0	1,2-Dichloroethane (1,2-DCA)	ND<100	20	5.0
1,1-Dichloroethene	ND<100	20	5.0	cis-1,2-Dichloroethene	ND<100	20	5.0
trans-1,2-Dichloroethene	ND<100	20	5.0	1,2-Dichloropropane	ND<100	20	5.0
1,3-Dichloropropane	ND<100	20	5.0	2,2-Dichloropropane	ND<100	20	5.0
1,1-Dichloropropene	ND<100	20	5.0	cis-1,3-Dichloropropene	ND<100	20	5.0
trans-1,3-Dichloropropene	ND<100	20	5.0	Diisopropyl ether (DIPE)	ND<100	20	5.0
Ethylbenzene	140	20	5.0	Ethyl tert-butyl ether (ETBE)	ND<100	20	5.0
Hexachlorobutadiene	ND<100	20	5.0	2-Hexanone	ND<100	20	5.0
Iodomethane (Methyl iodide)	ND<100	20	5.0	Isopropylbenzene	100	20	5.0
4-Isopropyl toluene	ND<100	20	5.0	Methyl-t-butyl ether (MTBE)	ND<100	20	5.0
Methylene chloride	ND<100	20	5.0	4-Methyl-2-pentanone (MIBK)	ND<100	20	5.0
Naphthalene	560	20	5.0	n-Propyl benzene	610	20	5.0
Styrene	ND<100	20	5.0	1,1,1,2-Tetrachloroethane	ND<100	20	5.0
1,1,2,2-Tetrachloroethane	ND<100	20	5.0	Tetrachloroethene	ND<100	20	5.0
Toluene	ND<100	20	5.0	1,2,3-Trichlorobenzene	ND<100	20	5.0
1,2,4-Trichlorobenzene	ND<100	20	5.0	1,1,1-Trichloroethane	ND<100	20	5.0
1,1,2-Trichloroethane	ND<100	20	5.0	Trichloroethene	ND<100	20	5.0
Trichlorofluoromethane	ND<100	20	5.0	1,2,3-Trichloropropane	ND<100	20	5.0
1,2,4-Trimethylbenzene	3400	20	5.0	1,3,5-Trimethylbenzene	1300	20	5.0
Vinyl Acetate	ND<1000	20	50	Vinyl Chloride	ND<100	20	5.0
Xylenes	210	20	5.0				

Surrogate Recoveries (%)

%SS1:	104	%SS2:	94.4
%SS3:	115		

Comments:

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



McC Campbell Analytical Inc.

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Clayton Group Services 6920 Koll Center Pkwy, Ste. 216 Pleasanton, CA 94566	Client Project ID: #70-03412.01; Wente	Date Sampled: 04/18/03
		Date Received: 04/18/03
	Client Contact: Donald Ashton	Date Extracted: 04/18/03
	Client P.O.:	Date Analyzed: 04/23/03-04/24/03

Volatiles Organics + Oxygenates by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0304304

Lab ID	0304304-003A
Client ID	B-2 7.5-8'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	50	tert-Amyl methyl ether (TAME)	ND	1.0	5.0
Benzene	ND	1.0	5.0	Bromobenzene	ND	1.0	5.0
Bromochloromethane	ND	1.0	5.0	Bromodichloromethane	ND	1.0	5.0
Bromoform	ND	1.0	5.0	Bromomethane	ND	1.0	5.0
2-Butanone (MEK)	ND	1.0	10	t-Butyl alcohol (TBA)	ND	1.0	25
n-Butyl benzene	ND	1.0	5.0	sec-Butyl benzene	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Carbon Disulfide	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Chlorobenzene	ND	1.0	5.0
Chloroethane	ND	1.0	5.0	2-Chloroethyl Vinyl Ether	ND	1.0	5.0
Chloroform	ND	1.0	5.0	Chloromethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	4-Chlorotoluene	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2-Dibromo-3-chloropropane	ND	1.0	5.0
1,2-Dibromoethane (EDB)	ND	1.0	5.0	Dibromomethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,3-Dichlorobenzene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Dichlorodifluoromethane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2-Dichloroethane (1,2-DCA)	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	cis-1,2-Dichloroethene	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	1,2-Dichloropropane	ND	1.0	5.0
1,3-Dichloropropane	ND	1.0	5.0	2,2-Dichloropropane	ND	1.0	5.0
1,1-Dichloropropene	ND	1.0	5.0	cis-1,3-Dichloropropene	ND	1.0	5.0
trans-1,3-Dichloropropene	ND	1.0	5.0	Diisopropyl ether (DIPE)	ND	1.0	5.0
Ethylbenzene	ND	1.0	5.0	Ethyl tert-butyl ether (ETBE)	ND	1.0	5.0
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	5.0
Iodomethane (Methyl iodide)	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0
4-Isopropyl toluene	ND	1.0	5.0	Methyl-t-butyl ether (MTBE)	ND	1.0	5.0
Methylene chloride	ND	1.0	5.0	4-Methyl-2-pentanone (MIBK)	ND	1.0	5.0
Naphthalene	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
Styrene	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
1,1,2,2-Tetrachloroethane	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
Toluene	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	1.0	5.0
1,2,4-Trichlorobenzene	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,1,2-Trichloroethane	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
Trichlorofluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,2,4-Trimethylbenzene	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
Vinyl Acetate	ND	1.0	50	Vinyl Chloride	ND	1.0	5.0
Xylenes	ND	1.0	5.0				

Surrogate Recoveries (%)

%SS1:	99.4	%SS2:	97.1
%SS3:	111		

Comments:

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



Clayton Group Services 6920 Koll Center Pkwy, Ste. 216 Pleasanton, CA 94566	Client Project ID: #70-03412.01; Wentz	Date Sampled: 04/18/03
		Date Received: 04/18/03
	Client Contact: Donald Ashton	Date Extracted: 04/18/03
	Client P.O.:	Date Analyzed: 04/23/03-04/24/03

Volatiles Organics + Oxygenates by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0304304

Lab ID	0304304-011C
Client ID	B-3 3.5-4.0
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	50	tert-Amyl methyl ether (TAME)	ND	1.0	5.0
Benzene	ND	1.0	5.0	Bromobenzene	ND	1.0	5.0
Bromochloromethane	ND	1.0	5.0	Bromodichloromethane	ND	1.0	5.0
Bromoform	ND	1.0	5.0	Bromomethane	ND	1.0	5.0
2-Butanone (MEK)	ND	1.0	10	t-Butyl alcohol (TBA)	ND	1.0	25
n-Butyl benzene	ND	1.0	5.0	sec-Butyl benzene	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Carbon Disulfide	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Chlorobenzene	ND	1.0	5.0
Chloroethane	ND	1.0	5.0	2-Chloroethyl Vinyl Ether	ND	1.0	5.0
Chloroform	ND	1.0	5.0	Chloromethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	4-Chlorotoluene	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2-Dibromo-3-chloropropane	ND	1.0	5.0
1,2-Dibromoethane (EDB)	ND	1.0	5.0	Dibromomethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,3-Dichlorobenzene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Dichlorodifluoromethane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2-Dichloroethane (1,2-DCA)	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	cis-1,2-Dichloroethene	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	1,2-Dichloropropane	ND	1.0	5.0
1,3-Dichloropropane	ND	1.0	5.0	2,2-Dichloropropane	ND	1.0	5.0
1,1-Dichloropropene	ND	1.0	5.0	cis-1,3-Dichloropropene	ND	1.0	5.0
trans-1,3-Dichloropropene	ND	1.0	5.0	Diisopropyl ether (DIPE)	ND	1.0	5.0
Ethylbenzene	ND	1.0	5.0	Ethyl tert-butyl ether (ETBE)	ND	1.0	5.0
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	5.0
Iodomethane (Methyl iodide)	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0
4-Isopropyl toluene	ND	1.0	5.0	Methyl-t-butyl ether (MTBE)	ND	1.0	5.0
Methylene chloride	ND	1.0	5.0	4-Methyl-2-pentanone (MIBK)	ND	1.0	5.0
Naphthalene	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
Styrene	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
1,1,2,2-Tetrachloroethane	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
Toluene	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	1.0	5.0
1,2,4-Trichlorobenzene	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,1,2-Trichloroethane	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
Trichlorofluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,2,4-Trimethylbenzene	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
Vinyl Acetate	ND	1.0	50	Vinyl Chloride	ND	1.0	5.0
Xylenes	ND	1.0	5.0				

Surrogate Recoveries (%)

%SS1:	101	%SS2:	96.2
%SS3:	119		

Comments:

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



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Clayton Group Services

Client Project ID: #70-03412.01; Wente

Date Sampled: 04/18/03

6920 Koll Center Pkwy, Ste. 216

Date Received: 04/18/03

Pleasanton, CA 94566

Client Contact: Donald Ashton

Date Extracted: 04/18/03

Client P.O.:

Date Analyzed: 04/23/03-04/24/03

Volatiles Organics + Oxygenates by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0304304

Lab ID 0304304-005C

Client ID B-4 7.5-8.0'

Matrix Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	50	tert-Amyl methyl ether (TAME)	ND	1.0	5.0
Benzene	ND	1.0	5.0	Bromobenzene	ND	1.0	5.0
Bromochloromethane	ND	1.0	5.0	Bromodichloromethane	ND	1.0	5.0
Bromoform	ND	1.0	5.0	Bromomethane	ND	1.0	5.0
2-Butanone (MEK)	ND	1.0	10	t-Butyl alcohol (TBA)	ND	1.0	25
n-Butyl benzene	ND	1.0	5.0	sec-Butyl benzene	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Carbon Disulfide	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Chlorobenzene	ND	1.0	5.0
Chloroethane	ND	1.0	5.0	2-Chloroethyl Vinyl Ether	ND	1.0	5.0
Chloroform	ND	1.0	5.0	Chloromethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	4-Chlorotoluene	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2-Dibromo-3-chloropropane	ND	1.0	5.0
1,2-Dibromoethane (EDB)	ND	1.0	5.0	Dibromomethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,3-Dichlorobenzene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Dichlorodifluoromethane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2-Dichloroethane (1,2-DCA)	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	cis-1,2-Dichloroethene	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	1,2-Dichloropropane	ND	1.0	5.0
1,3-Dichloropropane	ND	1.0	5.0	2,2-Dichloropropane	ND	1.0	5.0
1,1-Dichloropropene	ND	1.0	5.0	cis-1,3-Dichloropropene	ND	1.0	5.0
trans-1,3-Dichloropropene	ND	1.0	5.0	Diisopropyl ether (DIPE)	ND	1.0	5.0
Ethylbenzene	ND	1.0	5.0	Ethyl tert-butyl ether (ETBE)	ND	1.0	5.0
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	5.0
Iodomethane (Methyl iodide)	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0
4-Isopropyl toluene	ND	1.0	5.0	Methyl-t-butyl ether (MTBE)	ND	1.0	5.0
Methylene chloride	ND	1.0	5.0	4-Methyl-2-pentanone (MIBK)	ND	1.0	5.0
Naphthalene	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
Styrene	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
1,1,2,2-Tetrachloroethane	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
Toluene	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	1.0	5.0
1,2,4-Trichlorobenzene	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,1,2-Trichloroethane	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
Trichlorofluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,2,4-Trimethylbenzene	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
Vinyl Acetate	ND	1.0	50	Vinyl Chloride	ND	1.0	5.0
Xylenes	ND	1.0	5.0				

Surrogate Recoveries (%)

%SS1:	97.9	%SS2:	95.8
%SS3:	116		

Comments:

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



Clayton Group Services 6920 Koll Center Pkwy, Ste. 216 Pleasanton, CA 94566	Client Project ID: #70-03412.01; Wente	Date Sampled: 04/18/03
		Date Received: 04/18/03
	Client Contact: Donald Ashton	Date Extracted: 04/18/03
	Client P.O.:	Date Analyzed: 04/23/03-04/24/03

Volatiles Organics + Oxygenates by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0304304

Lab ID	0304304-007C
Client ID	B-5 3.5-4'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	50	tert-Amyl methyl ether (TAME)	ND	1.0	5.0
Benzene	ND	1.0	5.0	Bromobenzene	ND	1.0	5.0
Bromochloromethane	ND	1.0	5.0	Bromodichloromethane	ND	1.0	5.0
Bromoform	ND	1.0	5.0	Bromomethane	ND	1.0	5.0
2-Butanone (MEK)	ND	1.0	10	t-Butyl alcohol (TBA)	ND	1.0	25
n-Butyl benzene	ND	1.0	5.0	sec-Butyl benzene	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Carbon Disulfide	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Chlorobenzene	ND	1.0	5.0
Chloroethane	ND	1.0	5.0	2-Chloroethyl Vinyl Ether	ND	1.0	5.0
Chloroform	ND	1.0	5.0	Chloromethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	4-Chlorotoluene	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2-Dibromo-3-chloropropane	ND	1.0	5.0
1,2-Dibromoethane (EDB)	ND	1.0	5.0	Dibromomethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,3-Dichlorobenzene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Dichlorodifluoromethane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2-Dichloroethane (1,2-DCA)	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	cis-1,2-Dichloroethene	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	1,2-Dichloropropane	ND	1.0	5.0
1,3-Dichloropropane	ND	1.0	5.0	2,2-Dichloropropane	ND	1.0	5.0
1,1-Dichloropropene	ND	1.0	5.0	cis-1,3-Dichloropropene	ND	1.0	5.0
trans-1,3-Dichloropropene	ND	1.0	5.0	Diisopropyl ether (DIPE)	ND	1.0	5.0
Ethylbenzene	ND	1.0	5.0	Ethyl tert-butyl ether (ETBE)	ND	1.0	5.0
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	5.0
Iodomethane (Methyl iodide)	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0
4-Isopropyl toluene	ND	1.0	5.0	Methyl-t-butyl ether (MTBE)	ND	1.0	5.0
Methylene chloride	ND	1.0	5.0	4-Methyl-2-pentanone (MIBK)	ND	1.0	5.0
Naphthalene	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
Styrene	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
1,1,2,2-Tetrachloroethane	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
Toluene	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	1.0	5.0
1,2,4-Trichlorobenzene	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,1,2-Trichloroethane	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
Trichlorofluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,2,4-Trimethylbenzene	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
Vinyl Acetate	ND	1.0	50	Vinyl Chloride	ND	1.0	5.0
Xylenes	ND	1.0	5.0				

Surrogate Recoveries (%)

%SS1:	94.5	%SS2:	95.1
%SS3:	111		

Comments:

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



Clayton Group Services 6920 Koll Center Pkwy, Ste. 216 Pleasanton, CA 94566	Client Project ID: #70-03412.01; Wente	Date Sampled: 04/18/03
		Date Received: 04/18/03
	Client Contact: Donald Ashton	Date Extracted: 04/22/03-04/24/03
	Client P.O.:	Date Analyzed: 04/22/03-04/24/03

Volatiles Organics + Oxygenates by P&T and GC/MS (Basic Target List)*

Extraction Method:

Analytical Method: SW8260B

Work Order: 0304304

Lab ID	0304304-012A
Client ID	B-4 W
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	1.0	t-Butyl alcohol (TBA)	ND	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	0.51	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	0.5
Chloroform	1.2	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	2.0	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Hexachlorobutadiene	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Iodomethane (Methyl iodide)	ND	1.0	0.5	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	1.3	1.0	0.5	n-Propyl benzene	0.67	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,1,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	5.1	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	4.0	1.0	0.5	1,3,5-Trimethylbenzene	1.7	1.0	0.5
Vinyl Acetate	ND	1.0	5.0	Vinyl Chloride	ND	1.0	0.5
Xylenes	12	1.0	0.5				

Surrogate Recoveries (%)

%SS1:	99.9	%SS2:	102
%SS3:	94.8		

Comments: i

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



Clayton Group Services
 6920 Koll Center Pkwy, Ste. 216
 Pleasanton, CA 94566

Client Project ID: #70-03412.01; Wente
 Client Contact: Donald Ashton
 Client P.O.:

Date Sampled: 04/18/03
 Date Received: 04/18/03
 Date Extracted: 04/22/03-04/24/03
 Date Analyzed: 04/22/03-04/24/03

Volatiles Organics + Oxygenates by P&T and GC/MS (Basic Target List)*

Extraction Method:

Analytical Method: SW8260B

Work Order: 0304304

Lab ID	0304304-013A						
Client ID	B-1W						
Matrix	Water						
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<10,000	2000	5.0	tert-Amyl methyl ether (TAME)	ND<1000	2000	0.5
Benzene	2100	2000	0.5	Bromobenzene	ND<1000	2000	0.5
Bromochloromethane	ND<1000	2000	0.5	Bromodichloromethane	ND<1000	2000	0.5
Bromoform	ND<1000	2000	0.5	Bromomethane	ND<1000	2000	0.5
2-Butanone (MEK)	ND<2000	2000	1.0	t-Butyl alcohol (TBA)	ND<10,000	2000	5.0
n-Butyl benzene	1300	2000	0.5	sec-Butyl benzene	ND<1000	2000	0.5
tert-Butyl benzene	ND<1000	2000	0.5	Carbon Disulfide	ND<1000	2000	0.5
Carbon Tetrachloride	ND<1000	2000	0.5	Chlorobenzene	ND<1000	2000	0.5
Chloroethane	ND<1000	2000	0.5	2-Chloroethyl Vinyl Ether	ND<1000	2000	0.5
Chloroform	ND<1000	2000	0.5	Chloromethane	ND<1000	2000	0.5
2-Chlorotoluene	ND<1000	2000	0.5	4-Chlorotoluene	ND<1000	2000	0.5
Dibromochloromethane	ND<1000	2000	0.5	1,2-Dibromo-3-chloropropane	ND<1000	2000	0.5
1,2-Dibromoethane (EDB)	ND<1000	2000	0.5	Dibromomethane	ND<1000	2000	0.5
1,2-Dichlorobenzene	ND<1000	2000	0.5	1,3-Dichlorobenzene	ND<1000	2000	0.5
1,4-Dichlorobenzene	ND<1000	2000	0.5	Dichlorodifluoromethane	ND<1000	2000	0.5
1,1-Dichloroethane	ND<1000	2000	0.5	1,2-Dichloroethane (1,2-DCA)	ND<1000	2000	0.5
1,1-Dichloroethene	ND<1000	2000	0.5	cis-1,2-Dichloroethene	ND<1000	2000	0.5
trans-1,2-Dichloroethene	ND<1000	2000	0.5	1,2-Dichloropropane	ND<1000	2000	0.5
1,3-Dichloropropane	ND<1000	2000	0.5	2,2-Dichloropropane	ND<1000	2000	0.5
1,1-Dichloropropene	ND<1000	2000	0.5	cis-1,3-Dichloropropene	ND<1000	2000	0.5
trans-1,3-Dichloropropene	ND<1000	2000	0.5	Diisopropyl ether (DIPE)	ND<1000	2000	0.5
Ethylbenzene	5900	2000	0.5	Ethyl tert-butyl ether (ETBE)	ND<1000	2000	0.5
Hexachlorobutadiene	ND<1000	2000	0.5	2-Hexanone	ND<1000	2000	0.5
Iodomethane (Methyl iodide)	ND<1000	2000	0.5	Isopropylbenzene	ND<1000	2000	0.5
4-Isopropyl toluene	ND<1000	2000	0.5	Methyl-t-butyl ether (MTBE)	ND<1000	2000	0.5
Methylene chloride	ND<1000	2000	0.5	4-Methyl-2-pentanone (MIBK)	ND<1000	2000	0.5
Naphthalene	1800	2000	0.5	n-Propyl benzene	1100	2000	0.5
Styrene	ND<1000	2000	0.5	1,1,1,2-Tetrachloroethane	ND<1000	2000	0.5
1,1,2,2-Tetrachloroethane	ND<1000	2000	0.5	Tetrachloroethene	ND<1000	2000	0.5
Toluene	34,000	2000	0.5	1,2,3-Trichlorobenzene	ND<1000	2000	0.5
1,2,4-Trichlorobenzene	ND<1000	2000	0.5	1,1,1-Trichloroethane	ND<1000	2000	0.5
1,1,2-Trichloroethane	ND<1000	2000	0.5	Trichloroethene	ND<1000	2000	0.5
Trichlorofluoromethane	ND<1000	2000	0.5	1,2,3-Trichloropropane	ND<1000	2000	0.5
1,2,4-Trimethylbenzene	9900	2000	0.5	1,3,5-Trimethylbenzene	3300	2000	0.5
Vinyl Acetate	ND<10,000	2000	5.0	Vinyl Chloride	ND<1000	2000	0.5
Xylenes	31,000	2000	0.5				

Surrogate Recoveries (%)

%SS1:	103	%SS2:	84.7
%SS3:	110		

Comments: i,h

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



McC Campbell Analytical Inc.

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Clayton Group Services 6920 Koll Center Pkwy, Ste. 216 Pleasanton, CA 94566	Client Project ID: #70-03412.01; Wente	Date Sampled: 04/18/03
		Date Received: 04/18/03
	Client Contact: Donald Ashton	Date Extracted: 04/28/03
	Client P.O.:	Date Analyzed: 04/28/03

Organochlorine Pesticides by GC-ECD (8080 Basic Target List)*

Extraction Method: SW3550C

Analytical Method: SW8081B

Work Order: 0304304

Lab ID	0304304-014A	0304304-015A	Reporting Limit for DF = 1	
			S	W
Client ID	Comp 1,3,4,5	Comp 6,7,8,9		
Matrix	S	S		
DF	1	5		
Compound	Concentration		µg/Kg	µg/L
Aldrin	ND	ND<5.0	1.0	NA
a-BHC	ND	ND<5.0	1.0	NA
b-BHC	ND	ND<5.0	1.0	NA
d-BHC	ND	ND<5.0	1.0	NA
g-BHC	ND	ND<5.0	1.0	NA
Chlordane (Technical)	ND	ND<120	25	NA
a-Chlordane	ND	6.2	1.0	NA
g-Chlordane	ND	6.8	1.0	NA
p,p-DDD	1.4	ND<5.0	1.0	NA
p,p-DDE	3.3	ND<5.0	1.0	NA
p,p-DDT	8.8	ND<5.0	1.0	NA
Dieldrin	ND	ND<5.0	1.0	NA
Endosulfan I	ND	ND<5.0	1.0	NA
Endosulfan II	ND	ND<5.0	1.0	NA
Endosulfan sulfate	ND	ND<5.0	1.0	NA
Endrin	ND	ND<5.0	1.0	NA
Endrin aldehyde	ND	ND<5.0	1.0	NA
Heptachlor epoxide	ND	ND<5.0	1.0	NA
Heptachlor	ND	ND<5.0	1.0	NA
Methoxychlor	ND	ND<5.0	1.0	NA
Toxaphene	ND	ND<250	50	NA
Surrogate Recoveries (%)				
%SS:	100	97.8		
Comments				

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

(a) PCB aroclor 1016; (b) PCB aroclor 1221; (c) PCB aroclor 1232; (d) PCB aroclor 1242; (e) PCB aroclor 1248; (f) PCB aroclor 1254; (g) PCB aroclor 1260; (h) a lighter than water immiscible sheen/product is present; (i) liquid sample that contains >~2 vol. % sediment; (j) sample diluted due to high organic content; (k) p,p,- is the same as 4,4,-; (l) florisil (EPA 3620) cleanup; (m) silica-gel (EPA 3630) cleanup; (n) elemental sulfur (EPA 3660) cleanup; (o) sulfuric acid permanganate (EPA 3665) cleanup;



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Clayton Group Services 6920 Koll Center Pkwy, Ste. 216 Pleasanton, CA 94566	Client Project ID: #70-03412.01; Wente	Date Sampled: 04/18/03
		Date Received: 04/18/03
	Client Contact: Donald Ashton	Date Extracted: 04/28/03
	Client P.O.:	Date Analyzed: 04/29/03

Organophosphorous Pesticides by GC-NPD (Basic Target List)*

Extraction Method: SW3550C

Analytical Method: SW8141B

Work Order: 0304304

Lab ID	0304304-014A	0304304-015A	Reporting Limit for DF = 1	
Client ID	Comp 1,3,4,5	Comp 6,7,8,9		
Matrix	S	S		
DF	1	5		

Compound	Concentration		µg/Kg	µg/L
Azinphos methyl (Guthion)	ND	ND<500	100	NA
Boistar (Sulprofos)	ND	ND<500	100	NA
Chloropyrifos	ND	ND<500	100	NA
Coumaphos	ND	ND<500	100	NA
Demeton-O	ND	ND<500	100	NA
Demeton-S	ND	ND<500	100	NA
Diazinon	ND	ND<500	100	NA
Dichlorvos (DDVP)	ND	ND<500	100	NA
Dimethoate	ND	ND<2000	400	NA
Disulfoton (Di-Syston)	ND	ND<500	100	NA
EPN	ND	ND<500	100	NA
Ethion	ND	ND<500	100	NA
Ethoprop	ND	ND<500	100	NA
Fensulfothion	ND	ND<500	100	NA
Fenthion	ND	ND<500	100	NA
Malathion	ND	ND<500	100	NA
Merphos	ND	ND<2000	400	NA
Mevinphos (Phosdrin)	ND	ND<500	100	NA
Naled (Dibrom)	ND	ND<2000	400	NA
Ethyl parathion	ND	ND<500	100	NA
Methyl parathion	ND	ND<500	100	NA
Phorate (Thimet)	ND	ND<500	100	NA
Ronnel	ND	ND<500	100	NA
Stirofos (Tetrachlorvinphos)	ND	ND<500	100	NA
TEPP	ND	ND<4000	800	NA
Tokuthion (Prothiofos)	ND	ND<500	100	NA
Trichloronate (Agritox)	ND	ND<2000	400	NA

Surrogate Recoveries (%)

%SS:	113	132		
Comments		j		

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

(h) a lighter than water immiscible sheen/product is present; (i) liquid sample that contains >~2 vol. % sediment; (j) sample diluted due to high organic content.



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Clayton Group Services 6920 Koll Center Pkwy, Ste. 216 Pleasanton, CA 94566	Client Project ID: #70-03412.01; Wente	Date Sampled: 04/18/03
		Date Received: 04/18/03
	Client Contact: Donald Ashton	Date Extracted: 04/28/03
	Client P.O.:	Date Analyzed: 04/30/03

Chlorinated Herbicides by GC-ECD (Basic Target List)*

Extraction Method: SW3550C

Analytical Method: SW8151A

Work Order: 0304304

Lab ID	0304304-014A	0304304-015A	Reporting Limit for DF =1	
Client ID	Comp 1,3,4,5	Comp 6,7,8,9		
Matrix	S	S		
DF	2	5		

Compound	Concentration			µg/Kg	ug/L
2,4-D (Dichlorophenoxyacetic acid)	ND<100	ND<250		50	NA
2,4-DB	ND<100	ND<250		50	NA
Dalapon	ND<100	ND<250		50	NA
Dicamba	ND<100	ND<250		50	NA
Dichloroprop	ND<100	ND<250		50	NA
Dinoseb (DNBP)	ND<100	ND<250		50	NA
MCPA	ND<10,000	ND<25,000		5000	NA
MCPP	ND<10,000	ND<25,000		5000	NA
2,4,5-T (Trichlorophenoxy acetic acid)	ND<100	ND<250		50	NA
2,4,5-TP (Silvex)	ND<100	ND<250		50	NA

Surrogate Recoveries (%)

%SS:	120	107		
Comments	j	j		

* water samples are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(h) a lighter than water immiscible sheen/product is present; (i) liquid sample that contains >~2 vol. % sediment; (j) sample diluted due to high organic content.

Clayton Group Services 6920 Koll Center Pkwy, Ste. 216 Pleasanton, CA 94566	Client Project ID: #70-03412.01; Wente	Date Sampled: 04/18/03
		Date Received: 04/18/03
	Client Contact: Donald Ashton	Date Extracted: 04/28/03
	Client P.O.:	Date Analyzed: 04/28/03

Arsenic by Graphite Furnace Atomic Absorption*

Extraction method: SW3050B Analytical methods: SW7010 Work Order: 0304304

Lab ID	Client ID	Matrix	Extraction	Arsenic	DF	% SS
0304304-015A	Comp 6,7,8,9	S	TTLc	ND	1	N/A

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TTLc	NA	mg/L
	S	TTLc	2.5	mg/Kg

* water/liquid/oil samples are reported in mg/L, soil/sludge/solid/product samples in mg/kg, wipes in µg/wipe and all TCLP / STLC / DISTLC / SPLP extracts in mg/L.

means surrogate recovery outside of acceptance range due to matrix interference; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

Analytical Methods: EPA 6010C/200.7 for all elements except: 200.9 (water/liquid- Sb, As, Pb, Se, Tl); 245.1 (Hg); 7010 (sludge/soil/solid/oil/product/wipes - As, Se, Tl); 7471B (Hg).

i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations; j) reporting limit raised due to insufficient sample amount; y) estimated values due to low surrogate recovery; z) reporting limit raised due to matrix interference.



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Clayton Group Services 6920 Koll Center Pkwy, Ste. 216 Pleasanton, CA 94566	Client Project ID: #70-03412.01; Wente	Date Sampled: 04/18/03
		Date Received: 04/18/03
	Client Contact: Donald Ashton	Date Extracted: 04/18/03-04/21/03
	Client P.O.:	Date Analyzed: 04/21/03-04/22/03

LUFT 5 Metals*

Extraction method: SW3050B Analytical methods: 6010C Work Order: 0304304

Lab ID	Client ID	Matrix	Extraction	Cadmium	Chromium	Lead	Nickel	Zinc	DF	% SS
005B	B-4 0.5-1.0	S	TTLC	ND	60	8.0	160	54	1	104
007B	B-5 0.5-1.0	S	TTLC	ND	52	41	150	57	1	107
011B	B-3 0.5-1.0'	S	TTLC	ND	69	7.9	180	99	1	109

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TTLC	NA	NA	NA	NA	NA	NA	NA	NA
	S	TTLC	0.5	0.5	3.0	2.0	1.0			mg/Kg

* water/liquid/oil samples are reported in mg/L, soil/sludge/solid/product samples in mg/kg, wipes in µg/wipe and all TCLP / STLC / DISTLC / SPLP extracts in mg/L.

means surrogate recovery outside of acceptance range due to matrix interference; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

Analytical Methods: EPA 6010C/200.7 for all elements except: 200.9 (water/liquid- Sb, As, Pb, Se, Tl); 245.1 (Hg); 7010 (sludge/soil/solid/oil/product/wipes - As, Se, Tl); 7471B (Hg).

i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations; j) reporting limit raised due to insufficient sample amount; y) estimated values due to low surrogate recovery; z) reporting limit raised due to matrix interference.

DHS Certification No. 1644

Angela Rydelius
Angela Rydelius, Lab Manager



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Clayton Group Services 6920 Koll Center Pkwy, Ste. 216 Pleasanton, CA 94566	Client Project ID: #70-03412.01; Wente	Date Sampled: 04/18/03
		Date Received: 04/18/03
	Client Contact: Donald Ashton	Date Extracted: 04/28/03
	Client P.O.:	Date Analyzed: 04/28/03

Lead by ICP*

Extraction method: SW3050B

Analytical methods: 6010C

Work Order: 0304304

Lab ID	Client ID	Matrix	Extraction	Lead	DF	% SS
0304304-015A	Comp 6,7,8,9	S	TTLC	9.4	1	103

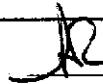
Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TTLC	NA	mg/L
	S	TTLC	3.0	mg/Kg

* water/liquid/oil samples are reported in mg/L, soil/sludge/solid/product samples in mg/kg, wipes in µg/wipe and all TCLP / STLC / DISTLC / SPLP extracts in mg/L.

means surrogate recovery outside of acceptance range due to matrix interference; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

Analytical Methods: EPA 6010C/200.7 for all elements except: 200.9 (water/liquid- Sb, As, Pb, Se, Tl); 245.1 (Hg); 7010 (sludge/soil/solid/oil/product/wipes - As, Se, Tl); 7471B (Hg).

i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations; j) reporting limit raised due to insufficient sample amount; y) estimated values due to low surrogate recovery; z) reporting limit raised due to matrix interference.

 Angela Rydelius, Lab Manager



QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0304304

EPA Method: SW8021B/8015Cm		Extraction: SW5030B		BatchID: 6622			Spiked Sample ID: 0304305-004A			
Compound	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex) [£]	ND	60	114	112	1.75	98.4	98.4	0	80	120
MTBE	ND	10	92	91.7	0.303	104	105	0.576	80	120
Benzene	ND	10	98.4	103	4.21	96.8	96.7	0.114	80	120
Toluene	0.6261	10	97	101	3.58	101	100	0.665	80	120
Ethylbenzene	ND	10	102	104	2.51	101	101	0	80	120
Xylenes	2.4	30	98.7	102	3.08	107	107	0	80	120
%SS:	104	100	100	105	4.31	99	98.5	0.505	80	120
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE										

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

$\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) * 2.$

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or



QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: S

WorkOrder: 0304304

EPA Method: SW8021B/8015Cm		Extraction: SW5030B		BatchID: 6633			Spiked Sample ID: 0304301-004A			
Compound	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex) [£]	ND	0.60	113	111	0.970	114	116	1.84	80	120
MTBE	ND	0.10	88.7	90.6	2.12	84.5	91.7	8.15	80	120
Benzene	ND	0.10	110	114	3.44	102	106	4.26	80	120
Toluene	ND	0.10	102	105	3.16	94.8	98.7	4.09	80	120
Ethylbenzene	ND	0.10	112	114	1.71	104	108	3.50	80	120
Xylenes	ND	0.30	107	110	3.08	96.7	103	6.67	80	120
%SS:	107	100	107	108	1.08	103	104	0.395	80	120

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
 NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / (MS + MSD) * 2.

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or



QC SUMMARY REPORT FOR SW8015C

Matrix: S

WorkOrder: 0304304

EPA Method: SW8015C		Extraction: SW3550C			BatchID: 6623		Spiked Sample ID: 0304292-001A			
Compound	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(d)	ND	150	100	102	2.10	91.3	91.8	0.532	70	130
%SS:	109	100	109	110	1.44	102	102	0	70	130
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE										

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

$\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) * 2.$

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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QC SUMMARY REPORT FOR SW8015C

Matrix: W

WorkOrder: 0304304

EPA Method: SW8015C		Extraction: SW3510C			BatchID: 6608		Spiked Sample ID: N/A			
Compound	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(d)	N/A	7500	N/A	N/A	N/A	102	105	3.43	70	130
%SS:	N/A	100	N/A	N/A	N/A	104	109	3.82	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
 NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = $100 * (MS - Sample) / (Amount Spiked)$; RPD = $100 * (MS - MSD) / (MS + MSD) * 2$.

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



QC SUMMARY REPORT FOR SW8260B

Matrix: S

WorkOrder: 0304304

EPA Method: SW8260B		Extraction: SW5030B		BatchID: 6626			Spiked Sample ID: 0304294-015A			
Compound	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/Kg	µg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Benzene	ND	50	115	119	3.85	114	110	2.73	70	130
tert-Amyl methyl ether (TAME)	ND	50	112	109	2.12	110	111	1.28	70	130
Chlorobenzene	ND	50	114	114	0	113	114	1.34	70	130
1,1-Dichloroethene	ND	50	119	115	3.36	104	98.4	5.71	70	130
Methyl-t-butyl ether (MTBE)	ND	50	128	124	3.43	118	111	6.42	70	130
Toluene	ND	50	120	125	3.86	117	114	2.66	70	130
Trichloroethene	ND	50	116	117	0.756	114	115	1.44	70	130
Diisopropyl ether (DIPE)	ND	50	129	125	3.36	127	119	6.78	70	130
Ethyl tert-butyl ether (ETBE)	ND	50	117	115	1.89	113	105	7.10	70	130
%SS1:	97.6	100	100	101	0.958	101	98.1	2.60	70	130
%SS2:	97.3	100	102	101	0.565	100	97.7	2.47	70	130
%SS3:	113	100	96.9	96.8	0.138	95.5	94.6	0.921	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
 NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

$\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) * 2.$

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



QC SUMMARY REPORT FOR SW8260B

Matrix: W

WorkOrder: 0304304

EPA Method: SW8260B		Extraction: SW5030B		BatchID: 6617			Spiked Sample ID: 0304290-001A			
Compound	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Benzene	ND	10	91.2	92.6	1.47	110	107	1.92	70	130
tert-Amyl methyl ether (TAME)	ND	10	96.9	98.5	1.63	106	106	0	70	130
Chlorobenzene	ND	10	94.6	95.8	1.23	116	113	3.03	70	130
1,1-Dichloroethene	ND	10	75.4	75.6	0.311	95.8	93.4	2.51	70	130
Methyl-t-butyl ether (MTBE)	ND	10	99	100	1.08	110	110	0	70	130
Toluene	5.844	10	87.9	92.3	2.99	119	115	3.44	70	130
Trichloroethene	ND	10	81.9	84.1	2.67	109	104	4.41	70	130
Diisopropyl ether (DIPE)	ND	10	103	105	1.91	123	122	0.400	70	130
Ethyl tert-butyl ether (ETBE)	ND	10	92.7	95.4	2.87	107	107	0	70	130
%SS1:	110	100	109	108	0.553	93.5	103	9.34	70	130
%SS2:	92.3	100	93.3	93.3	0	91.8	91.5	0.338	70	130
%SS3:	110	100	110	111	1.08	115	116	0.366	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
 NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

$\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) * 2.$

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



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QC SUMMARY REPORT FOR SW8141B

Matrix: S

WorkOrder: 0304304

EPA Method: SW8141B		Extraction: SW3550C		BatchID: 6635			Spiked Sample ID: 0304304-001A			
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/Kg	µg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Diazinon	ND	1000	87.2	93.5	6.98	97.6	91.6	6.40	60	140
Disulfoton (Di-Syston)	ND	1000	97.4	101	3.71	82.1	78.4	4.59	60	140
Fenthion	ND	1000	97.3	101	3.75	99.2	96.8	2.38	60	140
Methyl parathion	ND	1000	102	105	2.38	120	121	1.10	60	140
%SS:	117	100	107	117	9.71	104	123	10.8	60	140

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
 NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

$\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) * 2.$

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



QC SUMMARY REPORT FOR SW8081B

Matrix: S

WorkOrder: 0304304

EPA Method: SW8081B		Extraction: SW3550C		BatchID: 6659		Spiked Sample ID: 0304335-018A				
Compound	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/Kg	µg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Aldrin	ND	10	120	120	0	121	121	0	70	130
g-BHC	ND	10	113	112	0.445	110	112	1.67	70	130
p,p-DDT	2.149	25	103	103	0	107	108	0.870	70	130
Dieldrin	1.063	25	122	121	0.433	120	120	0	70	130
Endrin	ND	25	118	118	0	114	114	0	70	130
Heptachlor	ND	10	119	119	0	118	119	0.635	70	130
%SS:	101	100	97.5	97.7	0.236	98	97.9	0.166	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
 NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

$\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) * 2.$

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked. or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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QC SUMMARY REPORT FOR SW8151A

Matrix: S

WorkOrder: 0304304

EPA Method: SW8151A		Extraction: SW3550C		BatchID: 6636			Spiked Sample ID: 0304304-001A			
Compound	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/Kg	µg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
2,4-D (Dichlorophenoxyacetic ac	ND	100	102	92.3	10.2	108	114	6.05	60	140
2,4-DB	ND	100	117	106	10.1	115	109	5.77	60	140
Dalapon	ND	100	106	96.3	9.66	99	87.9	11.9	60	140
Dicamba	ND	100	110	106	4.18	102	103	1.45	60	140
2,4,5-TP (Silvex)	ND	100	97.7	92.5	5.44	111	118	6.34	60	140
%SS:	119	100	122	127	4.35	120	115	3.74	60	140

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
 NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

$$\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) * 2.$$

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



QC SUMMARY REPORT FOR 6010C

Matrix: S

WorkOrder: 0304304

EPA Method: 6010C		Extraction: SW3050B		BatchID: 6637			Spiked Sample ID: 0304309-001A			
Compound	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Cadmium	ND	500	107	108	0.816	117	108	8.81	70	130
Chromium	22.71	500	95.4	98.9	3.46	104	97	7.19	70	130
Lead	ND	500	96.8	95.8	1.08	104	95	8.66	70	130
Nickel	20.92	500	91.3	95.6	4.43	102	97.2	4.89	70	130
Zinc	15.27	500	93.3	97.5	4.30	105	98	7.08	70	130
%SS:	107	100	105	104	1.20	105	104	1.62	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
 NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

$\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) * 2.$

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



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QC SUMMARY REPORT FOR SW7010

Matrix: S

WorkOrder: 0304304

EPA Method: SW7010		Extraction: SW3050B		BatchID: 6691			Spiked Sample ID: N/A			
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Arsenic	N/A	5	N/A	N/A	N/A	113	107	5.36	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
 NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

$\% \text{ Recovery} = 100 * (\text{MS} - \text{Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) * 2.$

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 0304304

Client:

Clayton Group Services
 6920 Koll Center Pkwy, Ste. 216
 Pleasanton, CA 94566

TEL: (925) 426-2600
 FAX: (925) 426-0106
 ProjectNo: #70-03412.01; Wente
 PO:

Date Received: 04/18/03
 Date Printed: 04/30/03

Sample ID	ClientSampleID	Matrix	Collection Date	Hold	Requested Tests							
					8081_S	8141B_S	8151A_S	260B+OXYS	260B+OXYS_V	AS_S	G-MBTEX_S	
0304304-001	B-1 7.5-8.0	Soil	04/18/03 9:05:00 AM	<input type="checkbox"/>					D			D
0304304-001	B-1 Comp	Soil	04/18/03	<input checked="" type="checkbox"/>	A	A	A					
0304304-002	B-2 6.5-7.0	Soil	04/18/03 9:40:00 AM	<input checked="" type="checkbox"/>					A			
0304304-003	B-2 7.5-8'	Soil	04/18/03 9:40:00 AM	<input type="checkbox"/>					A			A
0304304-004	B-2 9.5-10'	Soil	04/18/03 9:55:00 AM	<input checked="" type="checkbox"/>					A			
0304304-005	B-4	Soil	04/18/03	<input checked="" type="checkbox"/>	A	A	A					
0304304-005	B-4 0.5-1.0	Soil	04/18/03 10:10:00 AM	<input type="checkbox"/>								B
0304304-005	B-4 7.5-8.0'	Soil	04/18/03 10:15:00 AM	<input type="checkbox"/>					C			
0304304-006	B-6	Soil	04/18/03	<input checked="" type="checkbox"/>	A	A	A				A	
0304304-007	B-5	Soil	04/18/03	<input checked="" type="checkbox"/>	A	A	A					
0304304-007	B-5 0.5-1.0	Soil	04/18/03 11:20:00 AM	<input type="checkbox"/>								B
0304304-007	B-5 3.5-4'	Soil	04/18/03 11:20:00 AM	<input type="checkbox"/>					C			
0304304-008	B-7	Soil	04/18/03	<input checked="" type="checkbox"/>	A	A	A				A	
0304304-009	B-8	Soil	04/18/03	<input checked="" type="checkbox"/>	A	A	A				A	
0304304-010	B-9	Soil	04/18/03	<input checked="" type="checkbox"/>	A	A	A				A	
0304304-011	B-3	Soil	04/18/03	<input checked="" type="checkbox"/>	A	A	A					

Prepared by: Melissa Valles

Comments: per fax luft was cancelled for 0304304-011C luft was instead added to 0304304-011B. Comps set up 4/28 on a rush

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

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 Pacheco, CA 94553-5560
 (925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0304304

Client:

Clayton Group Services
 6920 Koll Center Pkwy, Ste. 216
 Pleasanton, CA 94566

TEL: (925) 426-2600
 FAX: (925) 426-0106
 ProjectNo: #70-03412.01; Wente
 PO:

Date Received: 04/18/03

Date Printed: 04/30/03

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests								
					8081_S	8141B_S	8151A_S	260B+OXYS	260B+OXYS_V	AS_S	G-MBTEX_S		
0304304-011	B-3 0.5-1.0'	Soil	04/18/03 12:20:00 PM	<input type="checkbox"/>									B
0304304-011	B-3 3.5-4.0	Soil	04/18/03 12:30:00 PM	<input type="checkbox"/>					C				
0304304-012	B-4 W	Water	04/18/03 12:40:00 PM	<input type="checkbox"/>						A			
0304304-013	B-1W	Water	04/18/03 12:50:00 PM	<input type="checkbox"/>						A			
0304304-014	Comp 1,3,4,5	Soil	04/18/03	<input type="checkbox"/>	A	A	A						
0304304-015	Comp 6,7,8,9	Soil	04/18/03	<input type="checkbox"/>	A	A	A					A	

Prepared by: Melissa Valles

Comments: per fax luft was cancelled for 0304304-011C luft was instead added to 0304304-011B. Comps set up 4/28 on a rush

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

McC Campbell Analytical Inc.



110 Second Avenue South, #D7
 Pacheco, CA 94553-5560
 (925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0304304

Client:

Clayton Group Services
 6920 Koll Center Pkwy, Ste. 216
 Pleasanton, CA 94566

TEL: (925) 426-2600
 FAX: (925) 426-0106
 ProjectNo: #70-03412.01; Wente
 PO:

Date Received: 04/18/03
 Date Printed: 04/30/03

Sample ID	ClientSampleID	Matrix	Collection Date	Hold	Requested Tests						
					G-MBTX_W	LUFT_S	PB_S	TPH(DMO)_S	TPH(DMO)_W		
0304304-001	B-1 7.5-8.0	Soil	04/18/03 9:05:00 AM	<input type="checkbox"/>					D		
0304304-001	B-1 Comp	Soil	04/18/03	<input checked="" type="checkbox"/>							
0304304-002	B-2 6.5-7.0	Soil	04/18/03 9:40:00 AM	<input checked="" type="checkbox"/>							
0304304-003	B-2 7.5-8'	Soil	04/18/03 9:40:00 AM	<input type="checkbox"/>					A		
0304304-004	B-2 9.5-10'	Soil	04/18/03 9:55:00 AM	<input checked="" type="checkbox"/>							
0304304-005	B-4	Soil	04/18/03	<input checked="" type="checkbox"/>							
0304304-005	B-4 0.5-1.0	Soil	04/18/03 10:10:00 AM	<input type="checkbox"/>		B			B		
0304304-005	B-4 7.5-8.0'	Soil	04/18/03 10:15:00 AM	<input type="checkbox"/>							
0304304-006	B-6	Soil	04/18/03	<input checked="" type="checkbox"/>			A				
0304304-007	B-5	Soil	04/18/03	<input checked="" type="checkbox"/>							
0304304-007	B-5 0.5-1.0	Soil	04/18/03 11:20:00 AM	<input type="checkbox"/>		B			B		
0304304-007	B-5 3.5-4'	Soil	04/18/03 11:20:00 AM	<input type="checkbox"/>							
0304304-008	B-7	Soil	04/18/03	<input checked="" type="checkbox"/>			A				
0304304-009	B-8	Soil	04/18/03	<input checked="" type="checkbox"/>			A				
0304304-010	B-9	Soil	04/18/03	<input checked="" type="checkbox"/>			A				
0304304-011	B-3	Soil	04/18/03	<input checked="" type="checkbox"/>							

Prepared by: Melissa Valles

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McC Campbell Analytical Inc.



110 Second Avenue South, #D7
 Pacheco, CA 94553-5560
 (925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0304304

Client:

Clayton Group Services
 6920 Koll Center Pkwy, Ste. 216
 Pleasanton, CA 94566

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Date Received: 04/18/03

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Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests					
					G-MBTEX_W	LUFT_S	PB_S	TPH(DMO)_S	TPH(DMO)_W	
0304304-011	B-3 0.5-1.0'	Soil	04/18/03 12:20:00 PM	<input type="checkbox"/>		B		B		
0304304-011	B-3 3.5-4.0	Soil	04/18/03 12:30:00 PM	<input type="checkbox"/>						
0304304-012	B-4 W	Water	04/18/03 12:40:00 PM	<input type="checkbox"/>	B				B	
0304304-013	B-1W	Water	04/18/03 12:50:00 PM	<input type="checkbox"/>	B				B	
0304304-014	Comp 1,3,4,5	Soil	04/18/03	<input type="checkbox"/>						
0304304-015	Comp 6,7,8,9	Soil	04/18/03	<input type="checkbox"/>			A			

Prepared by: Melissa Valles

Comments: per fax luft was cancelled for 0304304-011C luft was instead added to 0304304-011B. Comps set up 4/28 on a rush

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McCAMPBELL ANALYTICAL

110 2nd AVENUE, # D7
PACHECO, CA 94553

925
(510) 708-1620

925
FAX (510) 798-1622

0304304 **RUSH**

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 24 HOUR 48 HOUR 5 DAY

REPORT TO: DONALD ASHTON BILL TO: SAME

COMPANY: CLAYTON GROUP SERVICES
6920 ROLL CENTER PARKWAY, STE 216
PLEASANTON, CA 94566

TELE: 925-426-2679 FAX: 925-426-0106

PROJECT NUMBER: 70-03412.01 PROJECT NAME: WENTZ

PROJECT LOCATION: SAMPLER SIGNATURE: *Don Ashton*

ANALYSIS REQUEST

3TEX & TPH as Gasoline (602/8020 & 8015)	
THP as 6015 6015 MULTI-SCAN	
Total Petroleum DI & Grease (5520 ELF/5520 BAF)	
Total Petroleum Hydrocarbons (418.1)	
EPA 601/8010	
EPA 602/8020	
EPA 608/8080 OCP ONLY	C1
EPA 608/8080 - PCBs Only	
EPA 624/8240/8260 + OXYGENATES	X
EPA 625/8270	
Metals: LUFT - Cd, Cr, Ni, Pb, Zn	
EPA - Priority Pollutant Metals	
LEAD (7240/7421/2392/6000)	
ORGANIC LEAD	
RCI	
EPA 8141 Organophosphorus Pest.	C1
EPA 8157 Chlorinated Hydrocarb.	C1
METALS TOTAL As TPb	X
NYOCD	X

1 of 3

COMMENTS

SAMPLE ID	LOCATION	SAMPLING		# CONTAINERS	TYPE CONTAINERS	MATRIX					METHOD PRESERVED					
		DATE	TIME			WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	OTHER			
B-1	0.5-1.0'	4-18-03	08:55	1	SLV		X									
B-1	1.5-2.0'		08:55		PLASTIC											
B-1	7.5-8.0'		09:05													
B-1	9.5-10'		09:10													
B-2	6.5-7.0'		09:40													
B-2	7.5-8'		09:40													
B-2	9.5-10'		09:55													
B-4	0.5-1.0'		10:10													
B-4	7.5-8.0'		10:15													
B-4	11.5-12'		10:25													
B-6	0.5-1.0'		11:05													
B-6	3.5-4'		11:05													
B-6	7.5-8'		11:10													

RELINQUISHED BY: <i>Don Ashton</i>	DATE: 4-18-03	TIME: 4:15	RECEIVED BY: <i>[Signature]</i>
RELINQUISHED BY: <i>[Signature]</i>	DATE: 4/18/03	TIME: 5:25	RECEIVED BY: <i>[Signature]</i>
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY LABORATORY:

REMARKS:
C1 = 4 PART COMPOSITE → **COMP 345**
C2 = 4 PART COMPOSITE → **COMP 6789**

03 11904

McCAMPBELL ANALYTICAL

110 2nd AVENUE, # D7

PACHECO, CA 94553

FAX (510) 708-1822

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 24 HOUR 48 HOUR 5 DAY

925
(510) 708-1820

REPORT TO: DONALD ASHTON BILL TO:

COMPANY: CLAYTON

TELE: 925-426-2679

FAX #:

PROJECT NUMBER: 70-03412.01

PROJECT NAME: WBN 7E

PROJECT LOCATION:

SAMPLER SIGNATURE: *Don Ashton*

ANALYSIS REQUEST

OTHER

3 of 3

COMMENTS

80

SAMPLE ID	LOCATION	SAMPLING		# CONTAINERS	TYPE CONTAINERS	MATRIX					METHOD PRESERVED			ANALYSIS REQUEST	OTHER	COMMENTS	
		DATE	TIME			WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO ₃	OTHER				
B-1W		4-18-03	12:50	3	VOA	X											
B-4 1.5-21 Comp 1345 Comp 6789				2	LITER	X											HOLD

RELINQUISHED BY: <i>Don Ashton</i>	DATE: 4-18-03	TIME: 4:45	RECEIVED BY: <i>[Signature]</i>
RELINQUISHED BY: <i>[Signature]</i>	DATE: 4/18/03	TIME: 5:22P	RECEIVED BY: <i>[Signature]</i>
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY LABORATORY:

REMARKS:

SIS 1418

EPA 608/8080 - PCBs Only

EPA 624/8240/8260 + OXGENA TIES

EPA 625/8270

CAH - 17 Metals

EPA - Priority Pollutant Metals

LEAD 67240/7421/239.2/6010: AS

ORGANIC LEAD

PCB

BTEX & TPH as Gasoline (602/8020 & 8015)

THP - 6015 (8015) MULT-SCAIV

Total Petroleum Oil & Grease (5520 E&F/5520 B&F)

Total Petroleum Hydrocarbons (418.0)

EPA 601/8010

EPA 602/8020

EPA 608/8080

EPA 608/8080 - PCBs Only

EPA 624/8240/8260 + OXGENA TIES

EPA 625/8270

CAH - 17 Metals

EPA - Priority Pollutant Metals

LEAD 67240/7421/239.2/6010: AS

ORGANIC LEAD

PCB