



**OHM Remediation
Services Corp.**

A Subsidiary of OHM Corporation

November 17, 1994

Ms. Juliet Shin
Alameda County Health Care Services
1131 Harbor Bay Parkway
Alameda, California 94502

**Preliminary Site Assessment Report
Goodyear Service Center, Albany, California**

Dear Ms. Shin:

Enclosed please find a copy of the Preliminary Site Assessment Report for the Goodyear Service Center, 431 San Pablo Avenue, Albany, California. As requested in a letter from the Alameda County Health Care Services Agency, dated October 21, 1993, this site assessment was conducted to further characterize the nature, level, and extent of soil and groundwater contamination. The preliminary findings indicate that diesel fuel is the primary contaminant detected in both soil and groundwater. Based on the levels and limited extent of diesel contamination in the soil and groundwater and the limited potential use of the impacted groundwater, we do not feel that remediation is warranted at this time; however, we recommend that the quarterly groundwater monitoring program continue through the second quarter of 1995, after which time recommendations will be made to either take further action or pursue site closure.

If you have any questions regarding this report, please contact me at (510) 227-1105, ext. 415.

Sincerely,
OHM Remediation Services Corp.

Scott Rice, R.G.
Project Manager

Attachments

cc: W. Inghofer, Goodyear
J. Smerglia, Goodyear
R. Falaschi, Falaschi Construction

ALCO
HAZMAT
94 NOV 18 PM 3:18

PRELIMINARY SITE ASSESSMENT REPORT

.....

*Goodyear Tire Center
Albany, California*

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HAZMAT
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Prepared for:

GOODYEAR TIRE AND RUBBER COMPANY
7301 Ambassador Row
Dallas, Texas



Prepared by:

OHM REMEDIATION SERVICES CORP.
5731 West Las Positas Boulevard
Pleasanton, California 94588

LIMITATIONS

The conclusions presented by OHM Remediation Services Corp. in this report are based on available information and site conditions as they existed at the time of this investigation. Factual data and interpretations pertain to the specific project described in this report and rely on the accuracy of laboratory analyses, work performed by subcontractors, and conclusions and data presented in previous reports and investigations. The data presented in this report and their interpretations are not applicable to any other project or site, or to any other phase of investigations or remediation at this site. All documents, lists and data bases have been reviewed with due diligence.

OHM's investigation was performed using the standard of care and level of skill ordinarily exercised under similar circumstances by reputable hydrogeologists, environmental consultants and engineers currently practicing in this and similar localities. No other warranty, expressed or implied, is made as to the conclusions or the professional advice presented in this report.

Respectfully submitted,
OHM Remediation Services Corp.



Scott Rice
California Registered Geologist 6030

November 16, 1994

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1.0 INTRODUCTION

This report summarizes the results of a soil and groundwater investigation conducted by OHM Remediation Services Corporation (OHM) at the Goodyear Tire Center located at 431 San Pablo Avenue, Albany, California, near the intersection of San Pablo Avenue and Brighton Avenue (Figure 1).

This investigation was conducted under the direction of Goodyear in response to the October 21, 1993 letter from the Alameda County Health Care Services Agency, Department of Environmental Health (ACDEH) requesting a preliminary site assessment to determine the lateral and vertical extent of petroleum-hydrocarbon-impacted soil and groundwater (Appendix A).

1.1 SITE LOCATION AND SETTING

The Goodyear Tire Center has been an operating automotive maintenance and tire retail facility from approximately 1965 through the present. The property is currently owned by Mr. Robert Falaschi and leased by Goodyear Tire and Rubber Company and subsequently sub-leased to the store manager and operator of the facility, currently Mr. Eugene Kim.

The site is located in a commercial setting, along the primary business district avenue for the city of Albany, CA. The property is bordered by a bank to the north, a restaurant to the south and residential apartments to the east. Surrounding properties include a car wash, a retail paint store, a dry cleaner, and a former automotive repair facility.

Groundwater in the area is reported to fluctuate under seasonal rainfall influence. Previous investigations at nearby sites indicate that the groundwater flow direction varies from west, north-northwest, and east. The water table was measured at a depth of six to nine feet bgs in the monitor wells.

1.2 RECORDS SEARCH

A record search of properties within a 2000 foot radius was performed through the ACDEH and the State of California Department of Toxic Substances Control (DTSC). This search of ACDEH files revealed evidence of soil and groundwater contamination at two sites adjacent to the Goodyear site. The Plaza Car Wash Company, 400 San Pablo Ave (approximately 200 feet northwest of the subject site) apparently experienced a release of gasoline product from underground fuel storage tanks in 1989. A preliminary investigation of this site has indicated significant levels of contaminants in both the soil and groundwater. Remediation is scheduled to begin in 1994.

Groundwater at Troxel Auto/Albany Bowl located at 500 San Pablo Avenue, approximately 250 feet upgradient of the Plaza car wash, has apparently been impacted by petroleum hydrocarbons. As part of the Plaza monitoring project, one groundwater monitor well was installed on the Troxel Auto site. Groundwater samples from this well contained elevated levels of TPH as gas and BTEX. The Troxel Auto site also has two underground storage tanks (one leaded gasoline tank and one unknown solvent tank) from a previous owner. Groundwater samples collected

from two groundwater monitor wells located in the apparent downgradient direction from these tanks did not contain detectable concentrations of the target constituents.

DTSC had indicated no available records on the surrounding properties.

1.3 PREVIOUS INVESTIGATIONS

On July 20, 1993, a 550 gallon underground storage tank was excavated and removed from the site. This tank is believed to have been used to store waste oil. The tank was reported to be pitted and corroded and to have a number of small holes. There was also staining and evidence of hydrocarbon contamination in the tank excavation side walls. Based on information provided by the property owner, a gravel lense was present in the excavation pit at a depth of approximately six feet bgs.

The tank site was over-excavated in an effort to remove visible contamination from the vicinity of the former tank location. Groundwater intrusion was observed in the excavation at a depth of ten feet below ground surface (bgs). Following over-excavation, soil samples were collected from each of the side walls and the bottom of the tank excavation. The locations for these samples are shown on Figure 2. The excavation pit covered a surface area of approximately 9 feet x 29 feet and reached a depth of 10.5 feet bgs. At the conclusion of excavation activities, the excavation pit was backfilled. Sample results from this work were submitted to the ACDEH in a Certified Environmental Consulting, Inc. report dated October 14, 1993.

In October 1993, Walker's Hydraulics, Inc. was contracted for the removal and replacement of selected hydraulic hoists from the garage area of the facility. Following the removal of the hoists and over-excavation of the hoist #7 location, three soil samples were collected from each of the hoist excavation locations. These samples were analyzed for Total Oil and Grease (EPA Method 5520F) and Total Purgable Petroleum Hydrocarbons (EPA Method 8015). Figure 2 shows the approximate locations of these samples. A copy of the sample results and chain of custody is included as Appendix B. Groundwater was also observed in the bottom of the hoist #7 excavation. A summary of sample results from this work is presented in Table 1

On November 19, 1993, OHM Remediation Services Corp. collected soil samples from the over-excavated hoist # 7 location. Five soil samples were collected, one from each of the excavation side walls and one from the bottom of the excavation at an approximate depth of five feet bgs. The samples were analyzed for Total Oil and Grease (EPA Method 5520), Total Petroleum Hydrocarbons calculated as Diesel (EPA Method 8015), Benzene, Toluene, Ethyl Benzene and Total Xylenes (EPA method 8020) and selected heavy metals: Lead, Barium, Cadmium and Chromium (EPA methods W. E. T./3010/6010). The locations of these samples are shown on Figure 2. The results of these analyses are summarized in Table 2. The laboratory reports are included in Appendix C. The tank excavation has been resurfaced and a new lift has been installed at the location of the former alignment pit.

1.4 PROJECT OBJECTIVES AND SCOPE OF WORK

The objective of this preliminary site assessment was to further characterize the lateral and vertical extent of soil and groundwater contamination at the site. Data collected during this investigation will be used to further assess the nature, extent and source of target constituents at the site.

The Scope of Work for this phase of work included the following tasks:

- Installation of three groundwater monitor wells (MW-1, MW-2, and MW-3). One well (MW-1) was installed approximately 10 feet downgradient of the former waste oil storage tank and in close proximity to the easternmost hydraulic lifts. Well MW-2 was installed at the upgradient edge of the site and the third well (MW-3) was installed behind the service building further downgradient of the former tank and hoists.
- One soil boring (SB-1) was installed within ten feet and directly south of the former waste oil tank pit.
- A minimum of two soil samples were collected from each borehole to determine the lateral and vertical extent of petroleum-impacted soil in the vicinity of the former waste oil storage tank and hoists #6 and #7.
- Groundwater samples were collected from each monitor well to determine if the groundwater has been impacted by petroleum hydrocarbons and the lateral extent of contamination.

2.0 MONITOR WELL INSTALLATION AND SOIL BORING

This section describes the drilling, installation, and development of three groundwater monitor wells, drilling of one soil boring, site geology and hydrogeology, and analytical results.

2.1 PRE-MOBILIZATION ACTIVITIES

On August 23, 1994 a drilling permit application was completed by OHM and submitted to Zone 7 Water Agency (see Appendix B). At least forty-eight hours prior to drilling, the ACDEH was notified of the start date.

On August 26, 1994, OHM contacted Underground Service Alert (USA) to identify any public underground utilities in the vicinity of the drilling locations. Subtronics Corp. was contracted to provide clearance from private underground utilities on-site.

2.2 DRILLING PROCEDURES

A truck-mounted, hollow-stem auger drilling rig equipped with 8-inch diameter hollow-stem augers was used to drill the soil boring and monitor well borings.

Soil samples were collected by advancing a modified California split-spoon sampler, equipped with brass sleeves, into the soil beyond the tip of the augers. In addition, selected intervals in each boring were continuously sampled with the split-spoon sampler to provide a more complete record of site lithology. Each soil sample was screened on site with a portable photoionization detector (PID). Based upon site conditions encountered during the removal of the underground waste oil tank, groundwater was estimated to be approximately ten feet below ground surface; therefore, soil samples were proposed be collected from a depth of approximately five feet bgs and another from just above the soil/groundwater interface, at a depth of approximately ten feet bgs. Final sample location was based on lithology encountered during drilling.

2.3 SOIL BORING

On August 31, 1994, one soil boring (SB-1) was drilled in the vicinity of the former 550-gallon underground waste oil tank (Figure 2). The boring was located within ten feet and directly south of the former waste oil tank pit to delineate the lateral and vertical extent of contamination previously identified along the south wall of the tank excavation as well as define the southern extent of soil contamination observed from the hydraulic lift area.

In the original workplan (OHM, May 1994), boring SB-1 was proposed to be drilled to a depth of 10 feet bgs. SB-1 was the first boring drilled on site. The borehole was continuously sampled during drilling to provide a continuous record of site stratigraphy and to aid in determining when the saturated zone was encountered. Based on information obtained during the excavation of the UST, groundwater was anticipated at approximately eight feet bgs. During drilling, a clayey sand was encountered from approximately 6.5 to 9.5 feet bgs; however, no visible saturated sediments were present throughout this sand interval. The boring was advanced and continuous sampling continued in an effort to identify the water-bearing zone. After drilling to a depth of 25 feet bgs, and not encountering saturated sediments in the borehole, the boring was terminated. Although saturated sediments were not identified, a slow accumulation of

groundwater in the boring was noted during drilling. Approximately five feet of water had accumulated in the borehole prior to abandonment. The borehole was then backfilled with bentonite chips and cement grout to the surface. The boring log is presented in Appendix C.

Soil samples collected at five and eight feet bgs were selected for laboratory analysis. Soil samples were analyzed for total TPHG, TPHD, BTEX, oil and grease, and total metals.

2.4 MONITOR WELL INSTALLATION

On August 31, 1994, three monitor wells (MW-1, MW-2, and MW-3) were installed at the locations shown on Figure 2. MW-1 is located within ten feet downgradient of the former waste oil tank and as close as is feasible to hydraulic hoist areas #6 and #7 considering the location of the existing building. MW-2 is located upgradient of the former tank and approximately 20 feet east of hydraulic hoist #7. MW-3, was installed at the northern property boundary to provide soil and groundwater quality data approximately 60 to 80 feet downgradient of the former tank and hydraulic lift area and as close as possible to the lift area without affecting the integrity of the building.

Because of the subsurface lithology encountered, the total depth of two of the wells changed from the originally proposed depth of 20 feet bgs. Wells MW-1 and MW-2 were completed to a total depth of 13 feet bgs. MW-3 was completed at the original proposed depth of 20 feet bgs.

Two soil samples were selected for laboratory analysis from MW-1 (5 and 7 feet bgs) and MW-2 (5 and 8 feet bgs). Soil samples were collected from MW-3 at 5, 7, and 13 feet bgs and submitted to a California certified laboratory for analysis. Soil samples from each well were analyzed for TPHG, TPHD, BTEX, oil and grease, and total metals.

Each well was completed with two-inch diameter polyvinyl chloride (PVC) riser, with 0.020-inch factory-slotted screen. The depth interval of the well screen sections varied, depending on depth to water encountered in the borings. The annular space around the well screen was filled with a sand filter pack composed of #3 Monterey sand. The sand filter pack extended a minimum of one foot above the top of the well screen. A minimum one-foot thick bentonite seal was placed directly above the filter pack in the annular space between the riser and borehole to prevent leakage of grout into the filter pack. A cement grout seal was placed from above the bentonite seal to the ground surface. The wells were completed flush to the ground surface with a water-tight, traffic-rated well box. Well construction diagrams are presented in Appendix C.

The completed wells were surveyed by a licensed surveyor for elevation (mean sea level) and location relative to a City of Albany benchmark.

2.4.1 Well Development

On September 6, 1994, the three monitor wells were developed by a combination of surging and bailing. Prior to well development, depth to water was measured with an electronic water level meter. Well development began surging the well with a surge block which was moved up and down repeatedly within the saturated zone to induce movement of residual fine-grained material from the filter pack either into the well casing where it can be removed by bailing or back into the formation. After surging, the wells were bailed with a disposable polyethylene bailer. Temperature, pH, and specific conductivity were monitored during development. Bailing continued until a minimum of ten casing volumes of water were removed.

2.4.2 Groundwater Sampling

Following well development, each well was allowed to stabilize for a minimum of 24 hours in accordance with ACDEH guidelines. OHM purged and sampled the wells on September 7, 1994. Groundwater levels were measured in each well prior to purging and sampling. During the water-level survey, the wells were measured for depth-to-water and total depth from a surveyed reference point at the top of the PVC well casing. Depth-to-water measurements were recorded to the nearest 0.01 foot and total depth measurements were recorded to the nearest 0.1 foot to facilitate purge volume calculations.

Groundwater samples were collected from each of the monitor wells in accordance with established procedures and practices as defined by EPA (SW-846) and the California LUFT Manual. Prior to sampling, each well was purged of a minimum of three well volumes with a disposable polyethylene bailer. During the purging operation, the parameters of pH, temperature, conductivity, and turbidity were monitored after each well volume was removed. The wells were allowed to recover to a level sufficient for sampling, and groundwater samples were collected. Groundwater sampling field data sheets are presented in Appendix D.

Groundwater samples from each monitor well were collected using a disposable polyethylene bailer. Each sample was collected in 40-mL VOA vials, 500 mL amber glass jars, and one-liter amber jars. The samples were properly labeled and placed on ice in a sturdy plastic cooler for delivery to the California-certified laboratory under proper chain-of-custody documentation.

2.5 GEOLOGY AND HYDROGEOLOGY

Geologic logs for the three monitor wells and one soil boring are presented in Appendix C. The site is underlain by unconsolidated sediments to the total depths drilled. The upper five to eight feet is composed of a laterally continuous clay and sandy clay that was encountered in each of the four boreholes. The upper clay layer is underlain by a sand to clayey sand unit that ranges in thickness from two to three feet in the vicinity of the former waste oil tank (SB-1, MW-1, and MW-2) to eight feet in MW-3. This sand unit is continuous across the site and thickens to the northwest toward MW-3. The degree of saturation in this sand layer is highly variable across the site. In SB-1 and MW-2, water was not readily visible in this sand layer; whereas, saturated sediments were encountered in this zone at approximately 7 feet bgs in MW-1. The saturated zone in this sand unit was encountered in MW-3 at a greater depth (approximately 18 feet bgs) than in the other three borings. The shallow aquifer is underlain by clay and sandy clay which is laterally continuous in the vicinity of the former waste oil tank. This clay layer measures 16 feet in thickness in boring SB-1. The base of the shallow sand aquifer in MW-3 is composed of a very dense, well cemented, fine grained sand.

Figure 3 shows the potentiometric surface of the shallow aquifer as measured on September 6, 1994, prior to well development. These wells are characterized by slow recharge, as evidenced by the fact that water levels measured prior to sampling on September 7, 1994 had not fully recovered from the previous day's development activities. The approximate direction of groundwater movement in the shallow aquifer is generally to the northwest, with a hydraulic gradient of 0.027. Groundwater elevation data are presented in Table 3.

2.6 ANALYTICAL RESULTS

The soil and groundwater samples were submitted to Pace Laboratories, a State of California certified laboratory, located in Novato, California. Each soil and groundwater sample was analyzed for TPH calculated as diesel/motor oil and gasoline (modified EPA method 8015), benzene, toluene, ethylbenzene and xylene (EPA method 8020), oil and grease (standard method 5520 B & F), and total lead, cadmium, chromium, zinc and nickel (EPA method 7421) in accordance with the ACDEH letter of October 21, 1993 (Appendix A). Soil samples were also analyzed for chromium by the STLC extraction method (WET/3010/6010). As indicated by ACDEH (October 21, 1993), analyses for chlorinated hydrocarbons (EPA Method 8010) or semi-volatile constituents (EPA Method 8270) was not required.

Soil analyses from soil boring SB-1 and monitor well borings MW-1, MW-2, and MW-3 are summarized in Table 4. The results of groundwater analyses are presented in Table 2. Certified analytical reports and chain-of-custody documentation for soil and groundwater samples are presented in Appendix E.

The analytical results are summarized by analyte for each sample medium.

2.6.1 Soil Analytical Results

TPHG: Two soil samples contained detectable concentrations of petroleum hydrocarbons when analyzed for TPHG by modified EPA method 8015; however, the laboratory indicated that the detectable hydrocarbons did not match the profile of the laboratory standard. A review of the chromatograms from the gas chromatography analyses reveals that hydrocarbons reported as gasoline are in fact not gasoline, but rather represent the lighter fraction of diesel fuel.

TPHD: Soil samples collected from MW-1 at five and seven feet bgs contained 72 ppm and 15 ppm of TPHD, respectively. Only one soil sample collected from MW-3 at a depth of seven feet bgs contained detectable concentrations of TPHD (2,000 ppm). Soil samples collected from borings MW-2 and SB-1 at depths of five and eight feet bgs did not contain concentrations of TPHD above the method detection limit (5 ppm).

Oil and Grease: The analytical method specified by ACDH (EPA method 5520) for analysis of oil and grease does not differentiate between diesel fuel and heavier hydrocarbons such as oil and grease. Based on the results of TPH analyses (EPA method 8015) for the five foot sample from MW-1 (80 ppm) and the seven foot sample from MW-3 (2,200 ppm), the concentrations reported as oil and grease in MW-1 and MW-3 are most likely diesel fuel. The sample collected from SB-1 at a depth of five feet bgs contained 100 ppm oil and grease, but did not contain detectable concentrations of TPHD.

BTEX: BTEX was not detected in any of the soil samples collected from the four borings.

Total Metals: Each soil sample was analyzed for total cadmium, chromium, lead, nickel, and zinc. Total cadmium was not detected at concentrations above the method detection limit. Total lead was detected only at wells MW-1 (seven feet bgs) and MW-2 (five feet bgs) at concentrations of 11 and 18 ppm, respectively. Total chromium was detected in each soil sample at concentrations ranging from 49 to 90 ppm. Total nickel was detected in each soil sample at concentrations ranging from 69 to 150 ppm. Total zinc was detected in each soil sample at concentrations ranging from 34 to 65 ppm.

2.6.2 Groundwater Analytical Results

TPHG: TPHG was not detected in any of the monitor wells at concentrations above the method detection limit (50 ppb).

TPHD: TPHD was detected only at MW-1 at a concentration of 80 ppb. Monitor wells MW-2 and MW-3 did not contain concentrations of TPHD above the method detection limit (50 ppb).

Oil and Grease: Oil and grease was not detected in any of the monitor wells at concentrations above the method detection limit (500 ppb).

BTEX: Benzene and toluene were not detected in any of the monitor wells at concentrations above the method detection limit (0.5 ppb). Ethylbenzene was detected only at MW-2 at a concentration of 1.1 ppb. Xylene was detected only at MW-2 at a concentration of 1.5 ppb.

Total Metals: Each groundwater sample was analyzed for total cadmium, chromium, lead, nickel, and zinc. Total cadmium and total lead were not detected at concentrations above the method detection limit (6.0 ppb). Total chromium was detected in each of the three wells at concentrations ranging from 20 to 150 ppb. Total nickel was detected in MW-1 and MW-2 at concentrations of 340 ppb and 180 ppb, respectively. Total zinc was detected in each of the three wells at concentrations ranging from 40 to 130 ppb.

2.7 DISPOSAL OF DRILL CUTTINGS AND WASTEWATER

Drill cuttings generated during well installation were collected in 55-gallon DOT-approved drums marked with borehole location and date of generation. The drums were staged behind the service building pending analysis. Wastewater generated during well development and equipment decontamination was collected in DOT-approved 55-gallon drums. Approximately 100 gallons of waste water were generated from decontamination of equipment and another 55 gallons were generated during well development. Waste water generated during drilling activities was staged on-site for further characterization and disposal. The results of soil and groundwater analyses will be used to determine the appropriate method for disposal.

3.0 CONCLUSIONS

OHM's soil and groundwater investigation has shown that soil contamination is limited to petroleum hydrocarbons. BTEX was not detected at concentrations above the method detection limits. Analytical results from soil samples indicate that TPH contamination detected at concentrations above 100 ppm is limited to MW-3 at a depth of seven feet bgs. TPH was not detected in samples collected above (at five feet bgs) or below (at thirteen feet bgs) the seven foot sampling point in MW-3. This distribution of TPH in the soil suggests that TPH compounds are confined to a shallow sand interval from five to seven feet bgs. Soil samples collected from each boring were characterized by non-detect or low concentrations of total metals.

Analytical results from groundwater samples show that groundwater has not been significantly impacted by dissolved TPH compounds. Migration of TPH is extremely limited, as evidenced by the presence of TPHD only in the well closest to the former underground storage tank (MW-1) at a concentration of 80 ppb. Benzene and toluene were not detected above the method detection limits for each analyte. Ethylbenzene and xylenes were detected at low concentrations only at MW-2.

The shallow groundwater aquifer in the immediate area of the site is likely a perched zone with significant lateral variations in permeability. Based on data collected during well development it appears that this shallow aquifer is incapable of sustaining even nominal well yields. The shallow groundwater zone appears to have no beneficial use for domestic, municipal, or industrial purposes.

TABLES

Table 1
 Summary of Soil Sample Results
 Hydraulic Hoists
 Collected by Walker Hydraulics 10-22-93
 (mg/kg)

Target Constituent	Sample #2-1	Sample #6-1	Sample #7-1
Approx. Depth (FT)	9.5	9.5	8
TPH/O&G	ND (<50)	840	ND (<50)
TPH/G	ND (<1)	2	18
TPH/D	--	3,900	1,500

Table 2
 Summary of Soil Sample Results
 Hoist #7
 Collected by OHM 11/19/93
 (mg/kg)

Target Constituent	Sample LS-001	RS-002	BS-003	FS-004	B-005
Approx. Depth (ft)	5	5	5	5	5
Oil & Grease	89	150	N.D.	82	N.D.
TPH/D	1,800	130	93	250	43
Benzene	N.D.	N.D.	N.D.	N.D.	N.D.
Toluene	0.038	N.D.	0.0075	0.01	N.D.
Ethylbenzene	0.067	0.018	0.012	0.01	N.D.
Total Xylenes	0.26	0.038	0.025	0.022	N.D.

**TABLE 3
GROUNDWATER ELEVATION (feet)**

WELL ID	MEASURING POINT ELEVATION (feet)	GROUNDWATER ELEVATION (feet)											
		6-Sep-94											
MW-1	22.10	15.78											
MW-2	22.38	15.25											
MW-3	22.33	13.58											

- Notes:**
- 1) Measuring points are top of PVC casing.
 - 2) Groundwater elevations shown in feet above Mean Sea Level, relative to City of Albany benchmark
 - 3) • = Not Measured

**TABLE 4
SOIL ANALYTICAL RESULTS**

Sample Point	Depth (feet)	TPHG (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	TPHD (mg/kg)	Oil & Grease (mg/kg)	TOTAL METALS (mg/kg)				
									Ca	Cr	Pb	Ni	Zn
MW-1	5	11*	ND	ND	ND	ND	72	80	ND	71	ND	110	41
	7	ND	ND	ND	ND	ND	15	ND	ND	66	11	150	56
MW-2	5	ND	ND	ND	ND	ND	ND	ND	ND	87	18	83	34
	8	ND	ND	ND	ND	ND	ND	ND	ND	69	ND	81	46
MW-3	5	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA
	7	1000*	ND	ND	ND	ND	2000	2200	ND	59	ND	69	42
	13	ND	ND	ND	ND	ND	ND	ND	ND	54	ND	84	40
SB-1	5	ND	ND	ND	ND	ND	ND	100	ND	49	ND	99	39
	8	ND	ND	ND	ND	ND	ND	ND	ND	90	ND	130	65

1. mg/kg = milligrams/kilogram (parts per million)
2. TPHG = Total petroleum hydrocarbons as gasoline
3. TPHD = Total petroleum hydrocarbons as diesel
4. Total Metals - Ca = Cadmium; Cr = Chromium; Pb = Lead; Ni = Nickel; Zn = Zinc.
5. ND = Not detected above method detection limit
6. NA = Sample not analyzed for this parameter
7. Hydrocarbons present do not match profile of laboratory standard.

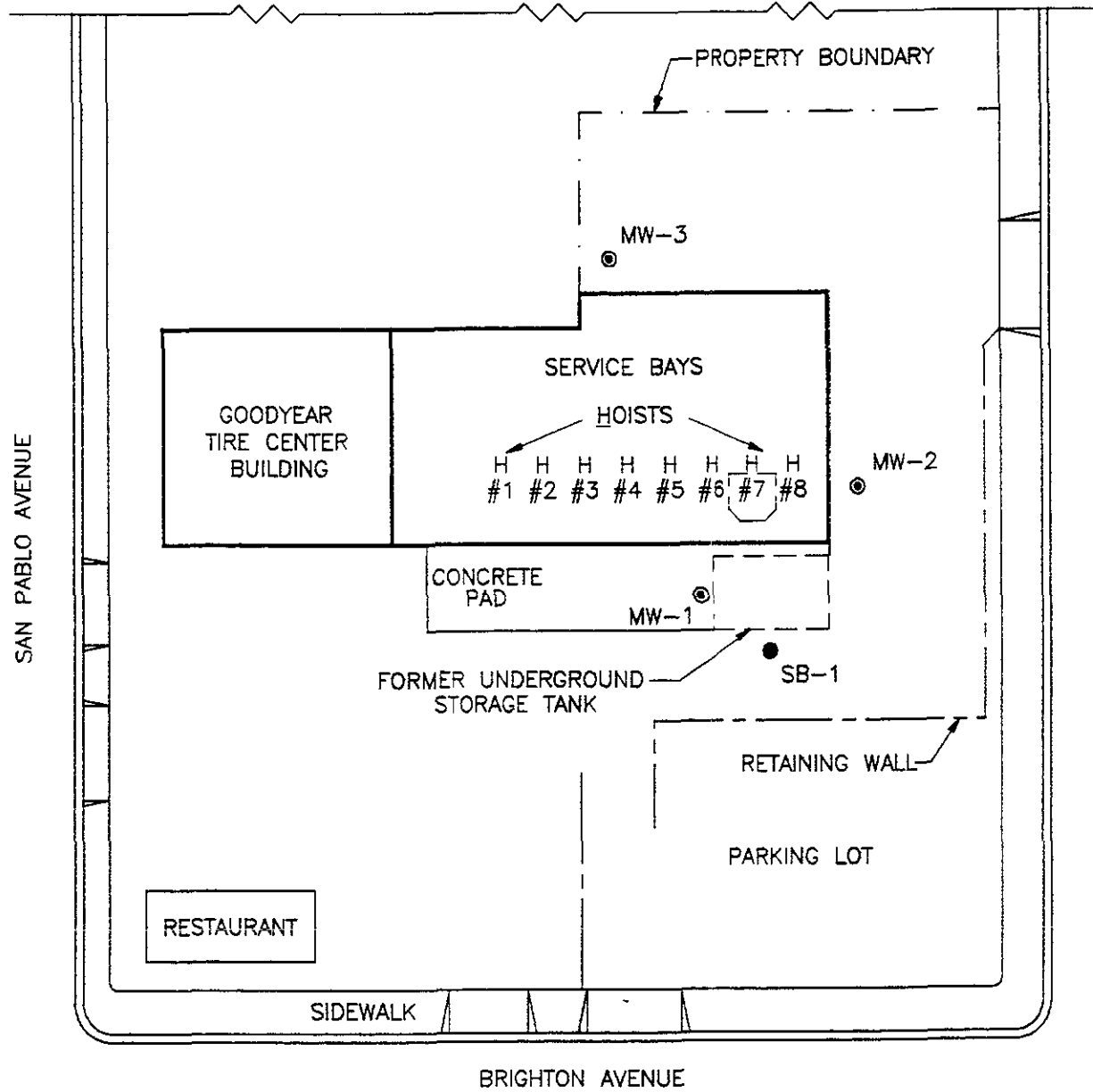
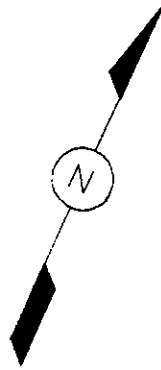
What does asterisk mean above.

**TABLE 5
GROUNDWATER ANALYTICAL RESULTS**

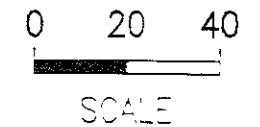
Well	TPHG (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl- Benzene (ug/L)	Xylenes (ug/L)	TPHD (ug/L)	Oil & Grease (ug/L)	TOTAL METALS (ug/L)				
								Ca	Cr	Pb	Ni	Zn
MW-1	ND	ND	ND	ND	ND	80	ND	ND	150	ND	340	130
MW-2	ND	ND	ND	1.1	1.5	ND	ND	ND	110	ND	180	120
MW-3	ND	ND	ND	ND	ND	ND	ND	ND	20	ND	ND	40

1. ug/L = micrograms/Liter (parts per billion)
2. TPHG = Total petroleum hydrocarbons as gasoline
3. TPHD = Total petroleum hydrocarbons as diesel
4. Total Metals - Ca = Cadmium; Cr = Chromium; Pb = Lead; Ni = Nickel; Zn = Zinc.
5. ND = Not detected above method detection limit

FIGURES



- LEGEND**
- ⊙ GROUNDWAER MONITORING WELL
 - SOIL BORING
 - - - LIMITS OF EXCAVATION



DESIGNED BY A. SUAREZ	DATE 9/29/94
DRAWN BY	DATE
CHECKED BY	DATE
SCALE 1"=40'	
PROJECT GOODYEAR	PROJECT NO. 15422
DRAWING NO. FIG 1	SHEET NO. 1
REV. NO. 0	

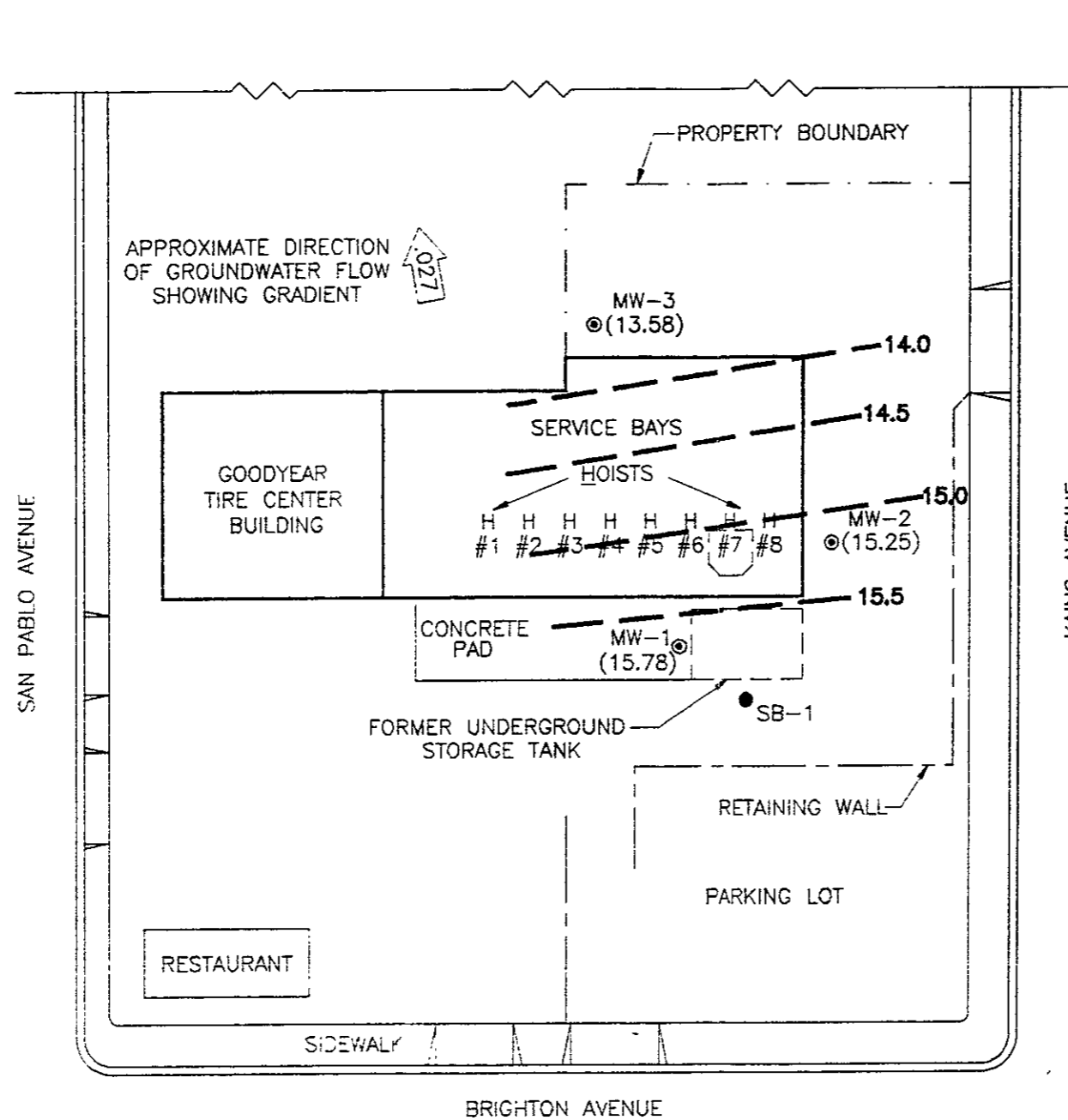


OHM Remediation Services Corp.

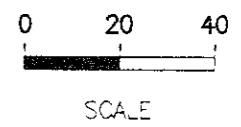
THE INFORMATION OR DATA CONTAINED HEREIN IS CONFIDENTIAL AND PROPRIETARY AND THE PROPERTY OF OHM CORPORATION AND SHALL NOT BE DISCLOSED TO OTHERS OR REPRODUCED IN ANY MANNER OR USED FOR ANY PURPOSE WHATSOEVER EXCEPT BY THE PRIOR WRITTEN CONSENT OF OHM CORPORATION. COPYRIGHT © OHM REMEDIATION SERVICES CORPORATION, 1993

GROUNDWATER CONTOURS
GOODYEAR TIRE CENTER
ALBANY, CALIFORNIA

DRAWN BY	A. SUAREZ	DATE	9/29/94
CHECKED BY		APPROVED BY	
SCALE	1"=40'		
PROJECT	GOODYEAR	OHM PROJECT No.	15422
DRAWING No.	FIG 2	SHEET	1
		OF	1
		REVISED	0



- LEGEND**
- ⊙ GROUNDWATER MONITORING WELL
 - SOIL BORING
 - - - LIMITS OF EXCAVATION
 - (13.58) MEASURED GROUNDWATER ELEVATION (FT.-MSL)
 - - - 14.5 GROUNDWATER ELEVATION CONTOUR (FT.-MSL)



APPENDICES

APPENDIX A

ACDEH LETTERS

DATED OCTOBER 21, 1993 AND MAY 2, 1994 _____

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 20C
Oakland, CA 94621
(510) 271-4530

October 21, 1993

Mr. Walter Inglehoffer
Good Year
7301 Ambassador Row
Dallas, TX 75247-4848

STID 1521

Re: Required investigations at 431 San Pablo Avenue, Albany, California

Dear Mr. Inglehoffer,

On July 20, 1993, one 550-gallon waste oil underground storage tank (UST) was removed from the above site. A 1/2" diameter hole, along with a number of smaller holes, were found on the tank. Additionally, extensive staining was observed on the walls of the tank pit.

One soil sample was collected from beneath the UST in native soil. Analysis of this soil sample identified 38 parts per million (ppm) Total Petroleum Hydrocarbons as diesel (TPHd). Additional excavation was conducted of the tank pit and soil samples were collected from the sidewalls and bottom of the enlarged pit. Upto 1,600 ppm TPHd, 49 ppm TPH as gasoline, 0.12 ppm benzene, and 240 ppm Oil & Grease were identified from the sidewall soil samples. Trace concentrations of metals were also identified, however, the level of chromium was of most concern, since the concentration exceeded ten times the Soluble Threshold Limit Concentration (STLC) for chromium.

Guidelines established by the California Regional Water Quality Control Board (RWQCB) require that soil and ground water investigations be conducted when a release from an underground storage tank may impact or may have already impacted ground water.

You are required to conduct a Preliminary Site Assessment (PSA) to determine the lateral and vertical extent and severity of soil and ground water contamination which has resulted from the release at the site. The information gathered by the PSA will be used to determine an appropriate course of action to remediate the site, if deemed necessary. The PSA must be conducted in accordance with the RWQCB's Staff Recommendations for the Initial Evaluation and Investigation of Underground Tanks, and be consistent with requirements set forth in Article 11 of Title 23, California Code of Regulations. The major elements of such an

Mr. Walter Inglehoffer
Re: 431 San Pablo Ave.
October 21, 1993
Page 2 of 4

investigation are summarized in the attached Appendix A. The major elements of the guidelines include, but are not limited to, the following:

- o At least one ground water monitoring well must be installed within 10 feet of the observed soil contamination, oriented in the confirmed downgradient direction relative to ground water flow. In the absence of data identifying the confirmed downgradient direction, a minimum of three wells will be required to verify gradient direction. During the installation of these wells, soil samples are to be collected at five-foot-depth intervals and any significant changes in lithology.
- o Subsequent to the installation of the monitoring wells, these wells must be surveyed to an established benchmark, with an accuracy of 0.01 foot. Ground water samples are to be collected and analyzed quarterly, and water level measurements are to be collected monthly for the first three months, and then quarterly thereafter. If the initial ground water elevation contours indicate that ground water flow directions vary greatly than you will be required to continue monthly water level measurements until the ground water gradient behavior is known. Both soil and ground water samples must be analyzed for TPHg, TPHd, BTEX, Oil & Grease, metals including lead, and lastly, a wet test must be conducted for chromium in the next round of sampling. Method 8010 and 8270 will not be required in the next round of sampling since none of these constituents were identified in the last phase of sampling.

This Department will oversee the assessment and remediation of your site. Our oversight will include the review of and comment on work proposals and technical guidance on appropriate investigative approaches and monitoring schedules. The issuance of well drilling permits, however, will be through the Alameda County Flood Control and Water Conservation District, Zone 7, in Pleasanton. The RWQCB may choose to take over as lead agency if it is determined, following the completion of the initial assessment, that there has been a substantial impact to ground water.

Mr. Walter Inglehoffer
Re: 431 San Pablo Ave.
October 21, 1993
Page 3 of 4

All reports and proposals must be submitted under a seal of a California -Registered Geologist, -Certified Engineering Geologist, or -Registered Civil Engineer. Please include a statement of qualifications for each lead professional involved with this project.

The PSA proposal is due within 60 days of the receipt of this letter. Once the proposal is approved, field work should commence within 60 days. A report must be submitted within 45 days after the completion of this phase of work at the site. Subsequent reports are to be submitted quarterly until this site qualifies for final RWQCB "sign-off". Such quarterly reports are due the first day of the second month of each subsequent quarter.

The referenced initial and quarterly reports must describe the status of the investigation and must include, among others, the following elements:

- o Details and results of all work performed during the designated period of time: records of field observations and data, boring and well construction logs, water level data, chain-of-custody forms, laboratory results for all samples collected and analyzed, tabulations of free product thicknesses and dissolved fractions, etc.
- o Status of ground water contamination characterization.
- o Interpretations of results: water level contour maps showing gradients, free and dissolved product, plume definition maps for each target component, geologic cross sections, etc.
- o Recommendations or plans for additional investigative work or remediation.

Please be advised that this is a formal request for a work plan pursuant to Section 2722 (c)(d) of Title 23 California Code of Regulations. Any extensions of the stated deadlines, or modifications of the required tasks, must be confirmed in writing by either this agency or RWQCB.

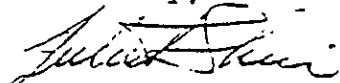
Additionally, please submit information/documentation for the fate of the excavated/stockpiled soil at the site within 15 days of the date of this letter.

Mr. Walter Inglehoffer
Re: 431 San Pablo Ave.
October 21, 1993
Page 4 of 4

Lastly, this office noted that further excavation was proposed in the October 14, 1993 report. This proposed excavation is an acceptable phase of investigations. Please be reminded that a representative from our office needs to be present for any overexcavation sampling. Please notify this office at least 48 hours in advance before this overexcavation.

If you have any questions or comments, please contact me at (510) 271-4530.

Sincerely,



Juliet Shin
Hazardous Materials Specialist

cc: Mr. Robert Falaschi
3080 Frye St.
Oakland, CA 94602

Edgar Howell-File(JS)

August 20, 1991

Appendix A

Workplan for Initial Subsurface Investigation

In recent years, the number of initial site investigations related to unauthorized releases of fuel products has increased dramatically. To assure that the workplans associated with these investigations can be reviewed and approved in a timely manner, it is essential that these documents have uniform organization and content.

The purpose of this appendix is to present an outline to be followed by professional engineering or geologic consultants in preparing workplans to be submitted for review and approval by Local Implementing Agencies and the Regional Board.

A statement of qualifications and the registration number of the California registered engineer and/or California registered geologist responsible for the project must be included with the submitted workplan and subsequent reports.

This appendix should be used in conjunction with the "Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites", August 1990.

PROPOSAL AND REPORT FORMAT

I. Introduction

A. Statement of Scope of Work

B. Site location

C. Background

D. Site History

1. Brief description of the type of business and associated activities that take place at the site, including the number and capacity of operating tanks.

2. Description of previous businesses at the site.

3. Complete description of tank activities, tank contents, and tank removal.

a. number of underground tanks, uses, etc...

3. Describe soil types and soil strata encountered in excavation(s).

4. Provide in tabular form the analytic results of all previous soil and water sampling. The location of these samples should be included on the site map. The date sampled, the identity of the sampler, and signed laboratory data sheets need to be included. The laboratory data sheets must include the laboratory's assessment of the condition of samples upon receipt, including: a) temperature, b) container type, c) air bubbles present/absent in VOA bottles, d) proper preservation, and e) any other relevant information which might affect the analytic results of the sample(s).

5. Identify underground utilities.

6. Describe any unusual problems encountered during excavation or tank removal.

7. Describe in detail the methods used for storing, characterizing, and disposing of all contaminated soil and groundwater.

8. Reference all required permits, including those issued by the Air Quality Management District and local underground tank permitting agency and public encroachment permits when drilling offsite..

III. Plan for determining the extent of soil contamination on site.

A. Describe the method/technique(s) proposed for determining the extent of contamination within the excavation.

B. Describe sampling methods and procedures to be used.

1. If soil gas survey is planned, then:

a. Identify number of boreholes, location (on site map), sampling depth, etc...

b. Identify subcontractors, if any

c. Identify methods or techniques used for analysis

d. Provide quality assurance plan for field testing

Please note that soil gas surveys are not considered to

B. Drilling method for construction of monitoring wells, including decontamination procedures.

1. Expected depth and diameter of monitoring wells
2. Expected drilling date
3. Sampling method and sampling interval (split spoon, every 5', at changes of lithology, at the soil/water interface, etc...)
4. Well design and construction specifications, including casing type, diameter, screen length and interval, and filter pack and screen slot specifications including rationale for their selection (sieve analysis, etc..).
5. Depth interval and type of seal
6. Construction diagram for wells
7. Well development method and criteria used for assessing adequacy of development (the time period between construction, development, and sampling should be noted)
8. Plans for characterizing and disposing of cutting spoils and development water (contact your Regional Board or Local Implementing Agency for guidance if on-site disposal is proposed)
9. Surveying plan for wells (requirements include surveying to established benchmark to 0.01 foot).

C. groundwater sampling plans (this should include plans for sampling of on-site domestic wells).

1. Water level measurement method
2. Method(s) for measuring free-product, observation of sheen and odor (must be done prior to well purging; the use of an interface probe when checking for the presence of free-product is highly recommended)
3. Well purging procedures
4. Well purge water characterization and disposal plans
5. Water sample collection protocol (include the pH, conductivity, and temperature of groundwater prior to sampling)

Post-It™ brand fax transmittal memo 7671		# of pages > 3
To Tracy Walker	From Juliet Shain	
Co. OHM	Co. Alameda City	
Dept.	Phone # (510) 271-4530	
Fax # (510) 256-6111	Fax #	

May 2, 1994

Mr. Walter Inglehoffer
Good Year
7301 Ambassador Row
Dallas, Texas 75247-4848

STID 1521

Re: Revised work plan for investigations at 431 San Pablo Ave.,
Albany, California

337-9231
dir. 337-2374

Dear Mr. Inglehoffer,

This office has reviewed OHM's revised work plan, dated April 7, 1994. This work plan is acceptable with the following additions/modifications:

- ✓ o Since soil samples collected from Well MW-2 will be used to delineate the extent of soil contamination observed on the east side of the Hoist #7 excavation, this well should be located more directly to the east of this former excavation, rather than to the north.
- ✓ o Since soil samples collected from Well MW-1 will be used to delineate the extent of soil contamination observed on the west sidewall of the former waste oil tank pit, this well should be located more directly west of the former tank pit.
- ✓ o An additional boring should be placed to the south of the former waste oil tank pit to delineate the extent of Oil & Grease identified along the south wall, and to delineate the southern extent of the soil contamination observed from the hydraulic lift area.
- ✓ o The monitoring wells must be surveyed to Mean Sea Level to an accuracy of 0.01 foot.
- ✓ o Contrary to OHM's proposal to analyze for Oil & Grease using Method 418.1, you will be required to use Method 5520 to detect Oil & Grease.
- ✓ o Please be reminded that a minimum of two soil samples shall be collected from each of the monitoring well and boring locations, and they will be analyzed for TPHg, TPHd, Oil & Grease (using Method 5520), benzene, toluene, ethylbenzene, and xylenes, and heavy metals.

5-1994 03:03 FROM ALCO HAZMAT TO 2366111 P.01

Mr. Walter Inglehoffer
Re: 431 San Pablo Ave.
May 2, 1994
Page 2 of 3

- ✓ ○ Ground water samples are to be collected and analyzed quarterly, and water level measurements and corresponding ground water gradient determinations are to be collected monthly for the first year, and quarterly thereafter.
- ✓ ○ The referenced quarterly reports must describe the status of the investigation and must include, among others, the following elements:
 - Details and results of all work performed during the designated period of time: records of field observations and data, boring and well construction logs, water level data, chain-of-custody forms, laboratory results for all samples collected and analyzed, tabulations of free product thicknesses and dissolved fractions, etc.
 - Status of ground water contamination characterization
 - Interpretations of results: water level contour maps showing gradients, free and dissolved product plume definition maps for each target component, geologic cross sections, etc.
 - Recommendations or plans for additional investigative work or remediation

A revised site plan showing the new location of the above monitoring wells and boring shall be submitted to this office within 20 days of the date of this letter.

Please be aware that further investigations to fully characterize the extent and severity of soil and ground water contamination, and remediation measures will most likely be required, following this phase of work.

Lastly, this office has no documentation for the fate of the excavated/stockpiled soil. Please submit this documentation to this office within 20 days of the date of this letter.

If you have any questions or comments, please contact me at (510) 271-4530.

Sincerely,

Juliet Shin
Hazardous Materials Specialist

cc: Mr. Robert Falaschi
3080 Frye St.
Oakland, CA 94602

Larry Hudson
OHM Remediation Services Corp.
1990 North California Blvd., Ste 400
Walnut Creek, CA 94596

Edgar Howell-File(JS)

APPENDIX B
WELL PERMIT



ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE

PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2600

FAX (510) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT Graphic Service Centers
431 San Pablo Ave.
Albany, CA.

PERMIT NUMBER 94506
LOCATION NUMBER _____

CLIENT

Name Graphic Tire and Rubber Co.
Address 7301 Ambassador Row Voice _____
City P.O. Box 660245 Zip 75266-0245
Dallas, Texas

PERMIT CONDITIONS

Circled Permit Requirements Apply

APPLICANT

Name OHM Remediation Services Corp.
Address 5731 W. Las Positas Blvd. Fax 510-227-0307
City Pleasanton, CA Voice 510-227-1100
Zip 94588

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.

B. WATER WELLS, INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
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. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

C. 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.

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

E. WELL DESTRUCTION. See attached.

TYPE OF PROJECT

Well Construction	Geotechnical Investigation
Cathodic Protection	General
Water Supply	Contamination
Monitoring	Well Destruction
<u>X</u>	<u>X</u>

PROPOSED WATER SUPPLY WELL USE

Domestic	Industrial	Other
Municipal	Irrigation	<u>Environmental Monitoring.</u>
_____	_____	_____

DRILLING METHOD:

Mud Rotary _____ Air Rotary _____ Auger X (Hollow stem)
Cable _____ Other _____

DRILLER'S LICENSE NO. (Loretta Waznet) #554979

WELL PROJECTS

Drill Hole Diameter	<u>8.0</u> in.	Maximum
Casing Diameter	<u>2.0</u> in.	Depth <u>T.B.D. (~20 ft.)</u>
Surface Seal Depth	<u>0.0</u> ft.	Number <u>3</u>
	(to ground surface)	

GEOTECHNICAL PROJECTS

Number of Borings	<u>1</u>	Maximum
Hole Diameter	<u>8.0</u> in.	Depth <u>T.B.D. (~20 ft.)</u>

ESTIMATED STARTING DATE 8/31/94
ESTIMATED COMPLETION DATE 8/31/94

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

Approved Craig A. Mayhew Date 6 Sep 94

APPLICANT'S

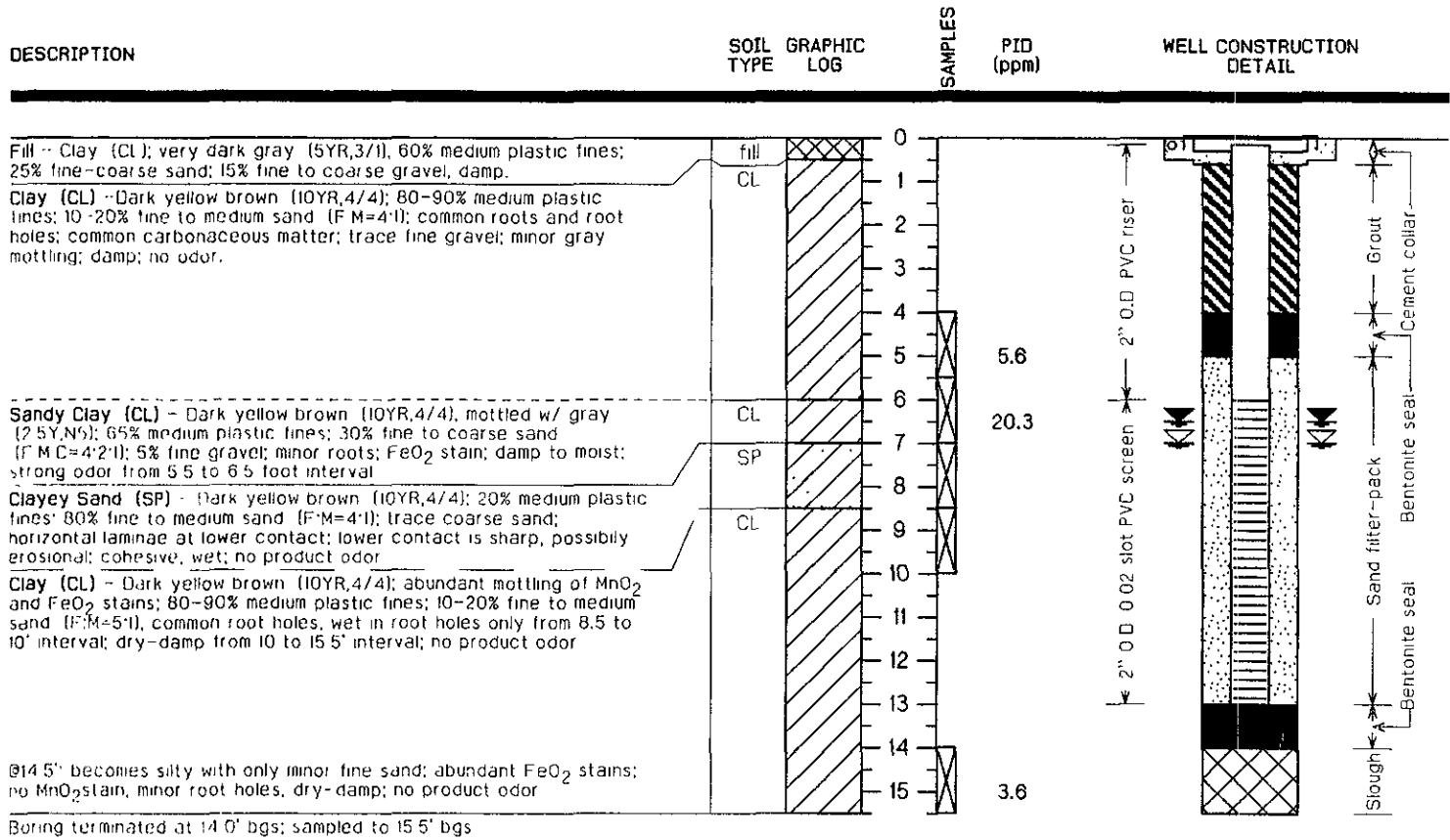
SIGNATURE Joan Walker Date 8-23-94

APPENDIX C
GEOLOGIC LOGS AND WELL CONSTRUCTION DIAGRAMS _____

Hole No. MW-1

PROJECT: Goodyear-Albany
 DRILL RIG: Mobile B57
 HOLE DIA.: 8.0 in.
 INITIAL H2O DEPTH: 7.0 ft.
 FINAL H2O DEPTH: 6.5 ft.

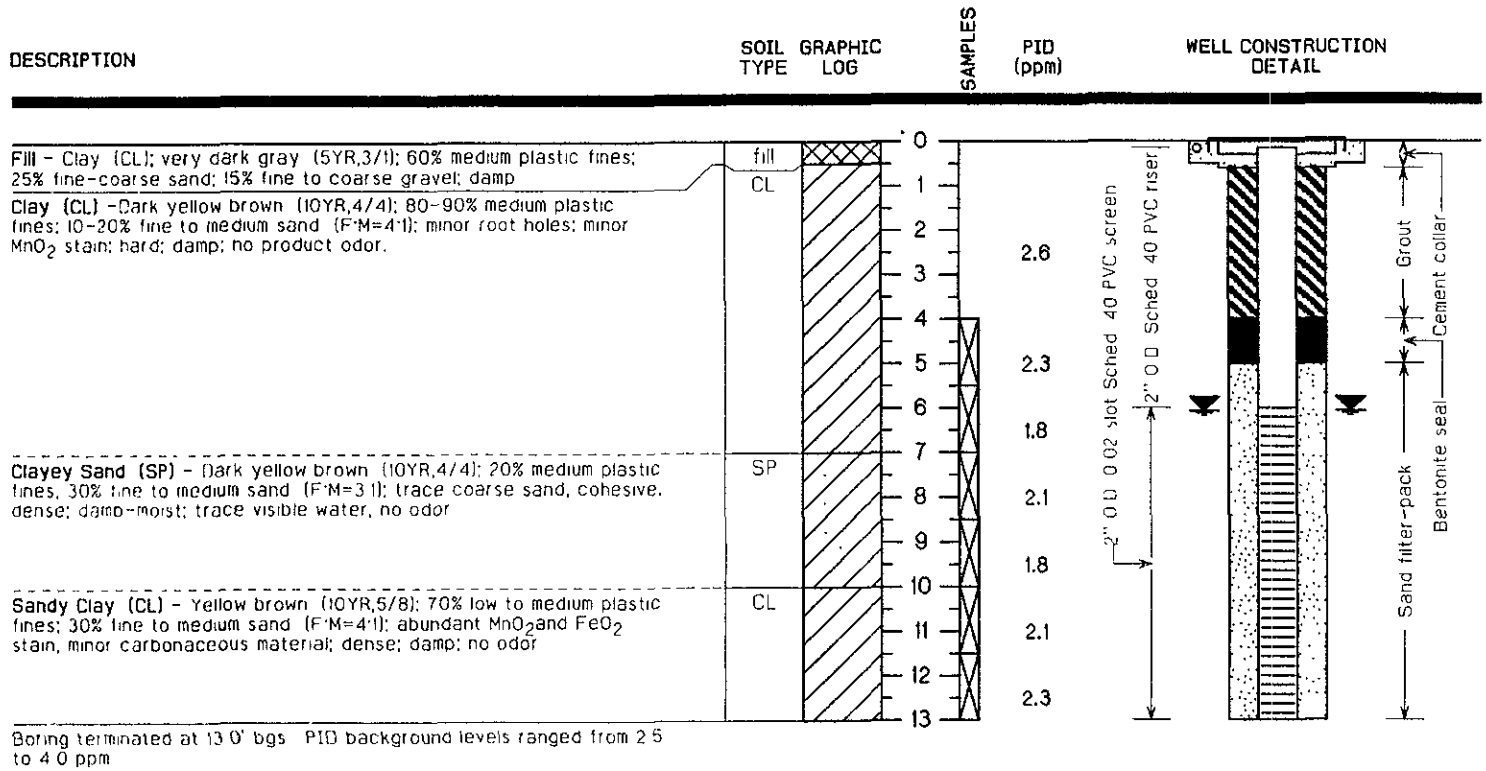
DATE DRILLED: 8/31/94
 LOGGED BY: Tracy Walker
 SAMPLER: Tracy Walker
 TOC ELEV.: 22.10 MSL ft.
 TOTAL DEPTH: 15.5 ft.



Hole No. MW-2

PROJECT: Goodyear-Albany
 DRILL RIG: Mobile B57
 HOLE DIA.: 8.0 in.
 INITIAL H2o DEPTH: ft.
 FINAL H2o DEPTH: 6.06 ft.

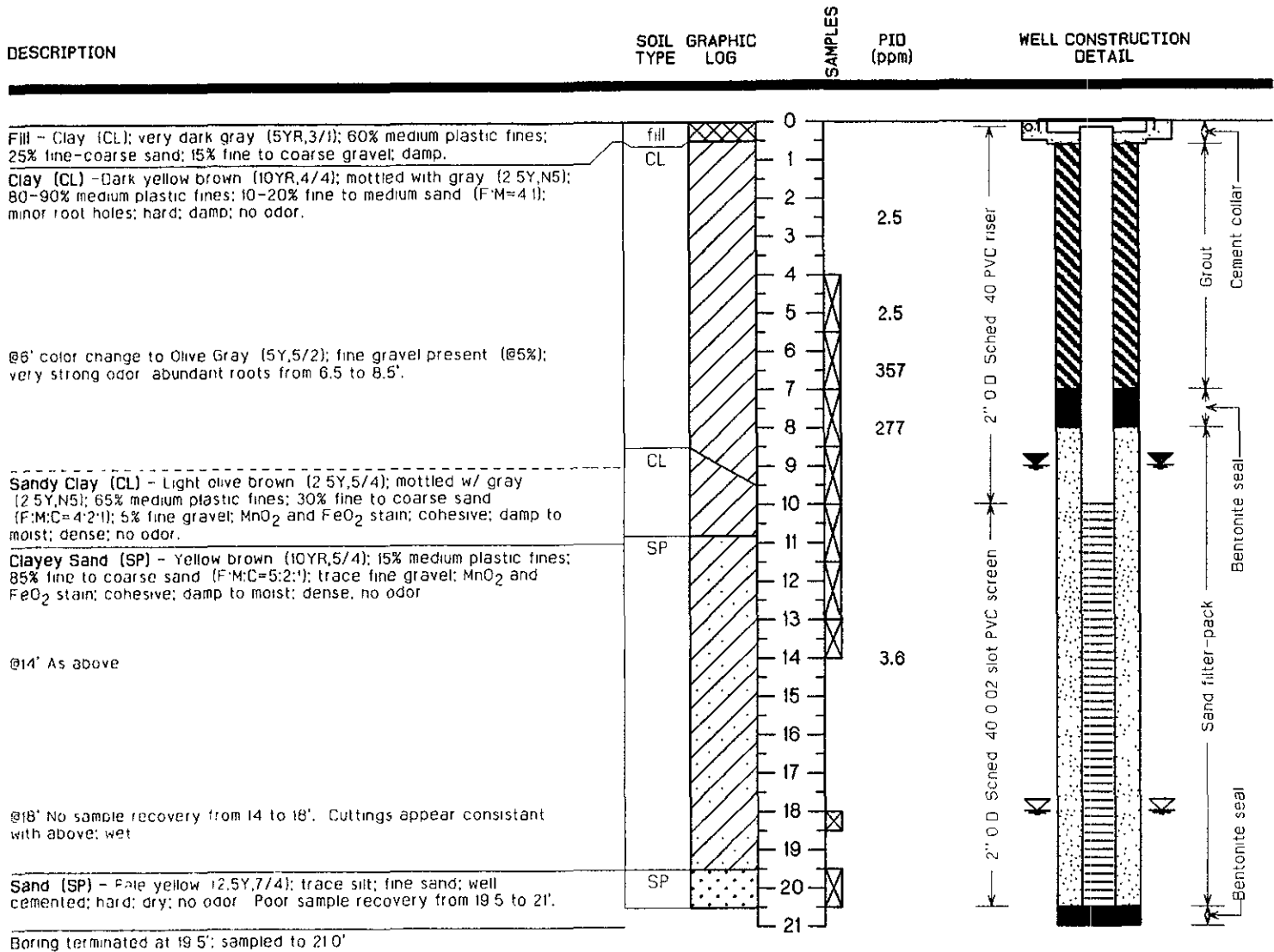
DATE DRILLED: 8/31/94
 LOGGED BY: Tracy Walker
 SAMPLER: Tracy Walker
 TOC ELEV.: 22.38 MSL ft.
 TOTAL DEPTH: 13.0 ft.



Hole No. MW-3

PROJECT: Goodyear-Albany
 DRILL RIG: Mobile B57
 HOLE DIA.: 8.0 in.
 INITIAL H₂O DEPTH: 18.0 ft.
 FINAL H₂O DEPTH: 9.0 ft.

DATE DRILLED: 8/31/94
 LOGGED BY: Tracy Walker
 SAMPLER: Tracy Walker
 TOC ELEV.: 22.33 MSL ft.
 TOTAL DEPTH: 21.0 ft.



Hole No. SB-1

PROJECT: Goodyear-Albany
 DRILL RIG: Mobile B57
 HOLE DIA.: 8.0 in.
 INITIAL H2o DEPTH: NA ft.
 FINAL H2o DEPTH: NA ft.

DATE DRILLED: 8/31/94
 LOGGED BY: Tracy Walker
 SAMPLER: Tracy Walker
 TOC ELEV.: NA
 TOTAL DEPTH: 26.0 ft.

DESCRIPTION	SOIL TYPE	GRAPHIC LOG	SAMPLES	PID (ppm)	REMARKS
Fill - Clay (CL); very dark gray (5YR,3/1); 60% medium plastic fines; 25% fine-coarse sand; 15% fine to coarse gravel; damp.	fill CL		0-1		The borehole was sealed with bentonite pellets from 26' bgs to 15', and with cement grout from 15'bgs to ground surface.
Clay (CL) - Dark yellow brown (10YR,4/4); 80-90% medium plastic fines; 10-20% fine to medium sand (F:M=4:1); common root holes and roots; trace fine gravel; hard; damp; no product odor	CL		1-26		
			2	2.6	
			3		
			4		
			5	2.6	
Clayey Sand (SP) - Dark yellow brown (10YR,4/4); 20% medium plastic fines; 80% fine to medium sand (F:M=4:1); trace coarse sand and fine gravel; cohesive; hard; damp-moist; no odor	SP		6-7	5.5	
			8	4.4	
@8.5' becomes coarser down to 10'; 10% medium plastic fines; 75% sand, as above, 15% fine gravel; abundant FeO ₂ stain, wet around gravel clasts, otherwise moist, no odor			9	4.4	
Clay (CL) - Yellow brown (10YR,5/8); 90-95% medium plastic fines; 5-10% fine to medium sand (F:M=5:1); trace coarse sand; FeO ₂ stain, minor root holes; hard; damp; no odor.	CL		10-11	4.8	
@12' From 12 to 13.5' abundant MnO ₂ stain			12		
			13	3.8	
			14		
@15' As above, trace fine gravel; damp; no odor			15	5.9	
			16		
			17		
@18' becomes sandier to bottom; 75-80% medium plastic fines, 20-25% fine to medium sand as above; damp; no odor			18		
			19		
			20		
			21	2.1	
			22		
			23		
@24' to 25' common coarse gravel (10%), damp; no odor			24		
			25	3.5	
			26		

Boring terminated at 26' bgs

APPENDIX D
MONITORING WELL DEVELOPMENT AND SAMPLING FIELD
DATA SHEETS

WELL SAMPLING LOG

PROJECT INFORMATION:

PROJECT NUMBER: 15422
 PROJECT NAME: Goodyear
 PROJECT LOCATION: Albany, CA

WELL ID: MW-1
 DATE: 9-7-94

WELL MEASUREMENT:

Depth to Bottom (DB) 12.8 ft.
 Depth to Water (DTW) 6.32 ft.
 Height of Water Column (H) = DB-DTW 6.48 ft.
 Casing Volume (CV) = ID mult x H 1 gal.
 Purge Volume (3 x CV) 3 gal.
 Point of Measurement: *TOC*

2 inch ID mult = 0.16 gal./ft.
 4 inch ID mult = 0.65 gal./ft.
 6 inch ID mult = 1.47 gal./ft.
 8 inch ID mult = 2.61 gal./ft.

PURGE DATA:

Time	1048	1053	1059		
pH	7.36	7.38	7.31		
Temp (F)	68.7	69.8	70.7		
Conductivity (us)	601	659	667		
Turbidity (NTU)	> 200	> 200	> 200		
Dissolved Oxygen (ppm)	-	-	-		
Odor	none	none	none		
Volume Purged (mL) <i>gal</i>	1	2	3		

SAMPLING INFORMATION:

Sample Number	MW-1	
Sample Date/Time	9-7-94	1330
Sampler ID	TW	
Witness ID	-	
Weather Condition	cloudy, cool	
Sample Collection Method	disposable bailer	
Volume Collected	3 x 40mL; 2 x 1L; 1 x 1L plastic	

COMMENTS:

Water level measurements from 9-6-94.

Form completed by: *Lacey Walker*

Date: *9-7-94*

WELL SAMPLING LOG

PROJECT INFORMATION:

PROJECT NUMBER: 15422
 PROJECT NAME: Goodyear
 PROJECT LOCATION: Albany, CA

WELL ID: MW-2
 DATE: 9-7-94

WELL MEASUREMENT:

Depth to Bottom (DB)	12.65	ft.
Depth to Water (DTW)	7.13	ft.
Height of Water Column (H) = DB-DTW	5.52	ft.
Casing Volume (CV) = ID mult x H	0.9	gal.
Purge Volume (3 x CV)	2.7	gal.

Point of Measurement: TOC

2 inch ID mult = 0.16 gal./ft.
4 inch ID mult = 0.65 gal./ft.
6 inch ID mult = 1.47 gal./ft.
8 inch ID mult = 2.61 gal./ft.

PURGE DATA:

Time	1032	1036	1040		
pH	7.59	7.47	7.36		
Temp (F)	67.2	67.9	67.0		
Conductivity (us)	470	481	536		
Turbidity (NTU)	> 200	> 200	> 200		
Dissolved Oxygen (ppm)	-	-	-		
Odor	none	none	none		
Volume Purged (mt) gal	0.9	1.8	2.7		

SAMPLING INFORMATION:

Sample Number	MW-2
Sample Date/Time	9-7-94 1350
Sampler ID	TLW
Witness ID	-
Weather Condition	cloudy, cool
Sample Collection Method	Disposable bailer
Volume Collected	3 x 40 mL; 2 x 1 L; 1 x 1 L plastic

COMMENTS:

Water level measurements from 9-6-94. After 3rd well volume, water level was ~ 1 foot from bottom. Allow to recharge before sampling.

Form completed by: Tracy Walker

Date: 9-7-94

WELL SAMPLING LOG

PROJECT INFORMATION:

PROJECT NUMBER: 15422
 PROJECT NAME: Goodyear
 PROJECT LOCATION: Albany, CA

WELL ID: MW-3
 DATE: 9-7-94

WELL MEASUREMENT:

Depth to Bottom (DB) 19.5 ft.
 Depth to Water (DTW) 8.75 ft.
 Height of Water Column (H) = DB-DTW 10.75 ft.
 Casing Volume (CV) = ID mult x H 1.7 gal.
 Purge Volume (3 x CV) 5.1 gal.
 Point of Measurement:

2 inch ID mult = 0.16 gal./ft.
4 inch ID mult = 0.65 gal./ft.
6 inch ID mult = 1.47 gal./ft.
8 inch ID mult = 2.61 gal./ft.

PURGE DATA:

Time	<u>1107</u>	<u>1113</u>	<u>1120</u>		
pH	<u>7.10</u>	<u>7.20</u>	<u>7.14</u>		
Temp (F)	<u>66.5</u>	<u>66.6</u>	<u>68.6</u>		
Conductivity (us)	<u>420</u>	<u>472</u>	<u>480</u>		
Turbidity (NTU)	<u>>200</u>	<u>>200</u>	<u>>200</u>		
Dissolved Oxygen (ppm)	<u>-</u>	<u>-</u>	<u>-</u>		
Odor	<u>Faint</u>	<u>None</u>	<u>None</u>		
Volume Purged (mt.) <i>gal</i>	<u>1.7</u>	<u>3.4</u>	<u>5.1</u>		

SAMPLING INFORMATION:

Sample Number	<u>MW-3</u>
Sample Date/Time	<u>9-7-94 1405</u>
Sampler ID	<u>TLW</u>
Witness ID	<u>-</u>
Weather Condition	<u>Sunny, warm</u>
Sample Collection Method	<u>Disposable bailer</u>
Volume Collected	<u>3 x 40 mL; 2 x 1 L; 1 x 1 L plastic</u>

COMMENTS:

Water level measurements from 9-6-94.

Form completed by: Jacy Walker

Date: 9-7-94

WELL DEVELOPMENT LOG

PROJECT INFORMATION:

PROJECT NUMBER: 15422
 PROJECT NAME: Goodyear
 PROJECT LOCATION: Albany, CA

WELL ID: MW-21
 DATE: 9-6-94

WELL MEASUREMENT:

Depth to Bottom (DB) _____ ft.
 Depth to Water (DTW) _____ ft.
 Height of Water Column (H) = DB-DTW _____ ft.
 Casing Volumn (CV) = ID mult x H _____ gal.
 Purge Volume (X x CV) _____ gal.
 Point of Measurement: TOC

12.8	ft.
6.32	ft.
6.48	ft.
1	gal.
	gal.

2 inch ID mult = 0.16 gal./ft.
4 inch ID mult = 0.65 gal./ft.
6 inch ID mult = 1.47 gal./ft.
8 inch ID mult = 2.61 gal./ft.

PURGE DATA:

Time	1130	1136	1140	1144	1148
pH	7.04	7.09	6.91	7.09	7.08
Temp (F)	73.0	74.6	72.3	72.5	70.4
Conductivity (us)	1064	876	791	803	762
Turbidity (NTU)	> 200	> 200	> 200	> 200	> 200
Dissolved Oxygen (ppm)	-	-	-	-	-
Odor	none	none	none	none	none
Volume Purged (ml) gal	1.2	14	16	18	20

SAMPLING INFORMATION:

Sample Number	
Sample Date/Time	
Sampler ID	
Witness ID	
Weather Condition	
Sample Collection Method	
Volume Collected	

COMMENTS: Surged for 27 minutes.
Bailed 5 gal water than completed surging.

Form completed by: _____

Date: _____

WELL DEVELOPMENT LOG

PROJECT INFORMATION:

PROJECT NUMBER: 15422
 PROJECT NAME: Goodyear
 PROJECT LOCATION: Albany

WELL ID: MW-2
 DATE: 9-6-94

WELL MEASUREMENT:

Depth to Bottom (DB) 12.65 ft.
 Depth to Water (DTW) 7.13 ft.
 Height of Water Column (H) = DB-DTW 5.52 ft.
 Casing Volumn (CV) = ID mult x H 0.9 gal.
 Purge Volume ($\frac{1}{2}$ x CV) gal.
 Point of Measurement: TDC

2 inch ID mult = 0.16 gal./ft.
4 inch ID mult = 0.65 gal./ft.
6 inch ID mult = 1.47 gal./ft.
8 inch ID mult = 2.61 gal./ft.

PURGE DATA:

Time	1358	1403	1409		
pH	7.28	7.17	7.18		
Temp (F)	70.6	68.0	66.7		
Conductivity (us)	830	720	572		
Turbidity (NTU)	> 200	> 200	> 200		
Dissolved Oxygen (ppm)	-	-	-		
Odor	none	none	none		
Volume Purged ($\frac{ml}{gal}$)	6	7	8		

SAMPLING INFORMATION:

Sample Number	
Sample Date/Time	
Sampler ID	
Witness ID	
Weather Condition	
Sample Collection Method	
Volume Collected	

COMMENTS: Surged for 15 minutes
 Bailed \approx 5 gal. Well almost dry. Tagged water at 11.55 ft which leaves \approx 1 ft of water. Tag water at 1356 at 9.5 ft. Bail 8 gals. btm tagged at 12.1 ft. Stop development.

Form completed by: _____ Date: _____

WELL DEVELOPMENT LOG

PROJECT INFORMATION:

PROJECT NUMBER: 15422
 PROJECT NAME: Goodyear
 PROJECT LOCATION: Albany, CA

WELL ID: MW-3
 DATE: 9-16-94

WELL MEASUREMENT:

Depth to Bottom (DB) 19.5 ft.
 Depth to Water (DTW) 8.75 ft.
 Height of Water Column (H) = DB-DTW 10.75 ft.
 Casing Volume (CV) = ID mult x H 1.7 gal.
 Purge Volume (3 x CV) gal.
 Point of Measurement: TCC

2 inch ID mult = 0.16 gal./ft.
4 inch ID mult = 0.65 gal./ft.
6 inch ID mult = 1.47 gal./ft.
8 inch ID mult = 2.61 gal./ft.

PURGE DATA:

Time	<u>1457</u>	<u>1504</u>	<u>1508</u>	<u>1513</u>	
pH	<u>7.31</u>	<u>7.32</u>	<u>7.24</u>	<u>7.32</u>	
Temp (F)	<u>74.4</u>	<u>72.3</u>	<u>69.7</u>	<u>68.4</u>	
Conductivity (us)	<u>603</u>	<u>579</u>	<u>543</u>	<u>529</u>	
Turbidity (NTU)	<u>> 200</u>	<u>> 200</u>	<u>> 200</u>	<u>> 200</u>	
Dissolved Oxygen (ppm)	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	
Odor	<u>none</u>	<u>none</u>	<u>none</u>	<u>none</u>	
Volume Purged (ml) <i>gal</i>	<u>9</u>	<u>11</u>	<u>13</u>	<u>15</u>	

SAMPLING INFORMATION:

Sample Number	
Sample Date/Time	
Sampler ID	
Witness ID	
Weather Condition	
Sample Collection Method	
Volume Collected	

COMMENTS: Surged for 15 minutes
Bailed 8 gal and well went dry. Tapped water at 12.8. less than
1 foot of water. Bailed dry at 15 gal. Stop development

Form completed by:

Date:

APPENDIX E

**CERTIFIED ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY
DOCUMENTATION: SOIL AND GROUNDWATER** _____

September 22, 1994

Mr. Tracy Walker
O.H. Materials Corp.
5731 West Las Positas Boulevard
Pleasanton, CA 94588

RE: PACE Project No. 440901.512
Client Reference: 15422 Goodyear

Dear Mr. Walker:

Enclosed is the report of laboratory analyses for samples received September 01, 1994.

Footnotes are given at the end of the report.

If you have any questions concerning this report, please feel free to contact us.

Sincerely,



Shellie L. Hoyt-Weeks
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

O.H. Materials Corp.
 5731 West Las Positas Boulevard
 Pleasanton, CA 94588

September 22, 1994
 PACE Project Number: 440901512

Attn: Mr. Tracy Walker

Client Reference: 15422 Goodyear

PACE Sample Number: 70 0386543
 Date Collected: 08/31/94
 Date Received: 09/01/94
 MW-1-5'

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Cadmium (EPA Method 6010/200.7, ICP)	mg/kg wet	1	ND	09/08/94
Chromium (EPA Method 6010/200.7, ICP)	mg/kg wet	1	71	09/08/94
Lead (EPA Method 6010/200.7, ICP)	mg/kg wet	10	ND	09/08/94
Nickel (EPA Method 6010/200.7, ICP)	mg/kg wet	2	110	09/08/94
Zinc (EPA Method 6010/200.7, ICP)	mg/kg wet	1	41	09/08/94

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	09/08/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/kg wet	1000	11000 HP	09/08/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	09/08/94
Benzene	ug/kg wet	5.0	ND	09/08/94
Toluene	ug/kg wet	5.0	ND	09/08/94
Ethylbenzene	ug/kg wet	5.0	ND	09/08/94
Xylenes, Total	ug/kg wet	5.0	ND	09/08/94

EXTRACTABLE FUELS EPA 3550/8015

Extractable Fuels, as Diesel	mg/kg	5.0	72	09/09/94
Date Extracted			09/06/94	

OIL AND GREASE, SILICA GEL (LUFT)

Oil and Grease, Gravimetric (SM5520)	mg/kg wet	50	80	09/06/94
Date Extracted			09/06/94	

Mr. Tracy Walker
 Page 2

September 22, 1994
 PACE Project Number: 440901512

Client Reference: 15422 Goodyear

PACE Sample Number: 70 0386551
 Date Collected: 08/31/94
 Date Received: 09/01/94
 Client Sample ID: MW-1-7'

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Cadmium (EPA Method 6010/200.7, ICP)	mg/kg wet	1	ND	09/08/94
Chromium (EPA Method 6010/200.7, ICP)	mg/kg wet	1	66	09/08/94
Lead (EPA Method 6010/200.7, ICP)	mg/kg wet	10	11	09/08/94
Nickel (EPA Method 6010/200.7, ICP)	mg/kg wet	2	150	09/08/94
Zinc (EPA Method 6010/200.7, ICP)	mg/kg wet	1	56	09/08/94

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	09/08/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/kg wet	1000	ND	09/08/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	09/08/94
Benzene	ug/kg wet	5.0	ND	09/08/94
Toluene	ug/kg wet	5.0	ND	09/08/94
Ethylbenzene	ug/kg wet	5.0	ND	09/08/94
Xylenes, Total	ug/kg wet	5.0	ND	09/08/94

EXTRACTABLE FUELS EPA 3550/8015

Extractable Fuels, as Diesel	mg/kg	5.0	15	09/09/94
Date Extracted			09/06/94	

OIL AND GREASE, SILICA GEL (LUFT)

Oil and Grease, Gravimetric (SM5520)	mg/kg wet	50	ND	09/06/94
Date Extracted			09/06/94	



REPORT OF LABORATORY ANALYSIS

Mr. Tracy Walker
Page 3

September 22, 1994
PACE Project Number: 440901512

Client Reference: 15422 Goodyear

PACE Sample Number: 70 0386578
Date Collected: 08/31/94
Date Received: 09/01/94
Client Sample ID: MW-1-15'

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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SUBCONTRACT ANALYSIS

INDIVIDUAL PARAMETERS
No analysis requested

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Mr. Tracy Walker
 Page 4

September 22, 1994
 PACE Project Number: 440901512

Client Reference: 15422 Goodyear

PACE Sample Number: 70 0386586
 Date Collected: 08/31/94
 Date Received: 09/01/94
 Client Sample ID: MW-2-5'

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Cadmium (EPA Method 6010/200.7, ICP)	mg/kg wet	1	ND	09/08/94
Chromium (EPA Method 6010/200.7, ICP)	mg/kg wet	1	87	09/08/94
Lead (EPA Method 6010/200.7, ICP)	mg/kg wet	10	18	09/08/94
Nickel (EPA Method 6010/200.7, ICP)	mg/kg wet	2	83	09/08/94
Zinc (EPA Method 6010/200.7, ICP)	mg/kg wet	1	34	09/08/94

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	09/08/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/kg wet	1000	ND	09/08/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	09/08/94
Benzene	ug/kg wet	5.0	ND	09/08/94
Toluene	ug/kg wet	5.0	ND	09/08/94
Ethylbenzene	ug/kg wet	5.0	ND	09/08/94
Xylenes, Total	ug/kg wet	5.0	ND	09/08/94

EXTRACTABLE FUELS EPA 3550/8015

Extractable Fuels, as Diesel	mg/kg	5.0	ND	09/09/94
Date Extracted			09/06/94	

OIL AND GREASE, SILICA GEL (LUFT)

Oil and Grease, Gravimetric (SM5520)	mg/kg wet	50	ND	09/06/94
Date Extracted			09/06/94	



REPORT OF LABORATORY ANALYSIS

Mr. Tracy Walker
Page 5

September 22, 1994
PACE Project Number: 440901512

Client Reference: 15422 Goodyear

PACE Sample Number: 70 0386608
Date Collected: 08/31/94
Date Received: 09/01/94
Client Sample ID: MW-2-7'

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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SUBCONTRACT ANALYSIS

INDIVIDUAL PARAMETERS
No analysis requested

\$ / /

Mr. Tracy Walker
 Page 6

September 22, 1994
 PACE Project Number: 440901512

Client Reference: 15422 Goodyear

PACE Sample Number: 70 0386616
 Date Collected: 08/31/94
 Date Received: 09/01/94
 Client Sample ID: MW-2-8'

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Cadmium (EPA Method 6010/200.7, ICP)	mg/kg wet	1	ND	09/08/94
Chromium (EPA Method 6010/200.7, ICP)	mg/kg wet	1	69	09/08/94
Lead (EPA Method 6010/200.7, ICP)	mg/kg wet	10	ND	09/08/94
Nickel (EPA Method 6010/200.7, ICP)	mg/kg wet	2	81	09/08/94
Zinc (EPA Method 6010/200.7, ICP)	mg/kg wet	1	46	09/08/94

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	09/08/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/kg wet	1000	ND	09/08/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	09/08/94
Benzene	ug/kg wet	5.0	ND	09/08/94
Toluene	ug/kg wet	5.0	ND	09/08/94
Ethylbenzene	ug/kg wet	5.0	ND	09/08/94
Xylenes, Total	ug/kg wet	5.0	ND	09/08/94

EXTRACTABLE FUELS EPA 3550/8015

Extractable Fuels, as Diesel	mg/kg	5.0	ND	09/09/94
Date Extracted			09/06/94	

OIL AND GREASE, SILICA GEL (LUFT)

Oil and Grease, Gravimetric (SM5520)	mg/kg wet	50	ND	09/06/94
Date Extracted			09/06/94	



REPORT OF LABORATORY ANALYSIS

Mr. Tracy Walker
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September 22, 1994
PACE Project Number: 440901512

Client Reference: 15422 Goodyear

PACE Sample Number: 70 0386632
Date Collected: 08/31/94
Date Received: 09/01/94
Client Sample ID: MW-2-13'

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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SUBCONTRACT ANALYSIS

INDIVIDUAL PARAMETERS
No analysis requested

\$ / /

Mr. Tracy Walker
 Page 8

September 22, 1994
 PACE Project Number: 440901512

Client Reference: 15422 Goodyear

PACE Sample Number: 70 0386640
 Date Collected: 08/31/94
 Date Received: 09/01/94
 Client Sample ID: MW-3-5'

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>		<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	09/14/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/kg wet	1000	ND	09/14/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	09/14/94
Benzene	ug/kg wet	5.0	ND	09/14/94
Toluene	ug/kg wet	5.0	ND	09/14/94
Ethylbenzene	ug/kg wet	5.0	ND	09/14/94
Xylenes, Total	ug/kg wet	5.0	ND	09/14/94

EXTRACTABLE FUELS EPA 3550/8015

Extractable Fuels, as Diesel	mg/kg	5.0	ND	09/15/94
Date Extracted			09/14/94	

OIL AND GREASE, SILICA GEL (LUFT)

Oil and Grease, Gravimetric (SM5520)	mg/kg wet	50	ND	09/20/94
Date Extracted			09/19/94	

Mr. Tracy Walker
 Page 9

September 22, 1994
 PACE Project Number: 440901512

Client Reference: 15422 Goodyear

PACE Sample Number: 70 0386667
 Date Collected: 08/31/94
 Date Received: 09/01/94
 Client Sample ID: MW-3-7'

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Cadmium (EPA Method 6010/200.7, ICP)	mg/kg wet	1	ND	09/08/94
Chromium (EPA Method 6010/200.7, ICP)	mg/kg wet	1	59	09/08/94
Lead (EPA Method 6010/200.7, ICP)	mg/kg wet	10	ND	09/08/94
Nickel (EPA Method 6010/200.7, ICP)	mg/kg wet	2	69	09/08/94
Zinc (EPA Method 6010/200.7, ICP)	mg/kg wet	1	42	09/08/94

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	09/10/94
Purgeable Fuels, as Gasoline (EPA 8015M)	mg/kg wet	50	1000 (PPM)	09/10/94

PURGEABLE AROMATICS (BTXE BY EPA 8020M):

Benzene	ug/kg wet	250	ND	09/10/94
Toluene	ug/kg wet	250	ND	09/10/94
Ethylbenzene	ug/kg wet	250	ND	09/10/94

Xylenes, Total	ug/kg wet	250	ND	09/10/94
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EXTRACTABLE FUELS EPA 3550/8015

Extractable Fuels, as Diesel	mg/kg	250	2000	09/13/94
Date Extracted			09/06/94	

OIL AND GREASE, SILICA GEL (LUFT)

Oil and Grease, Gravimetric (SM5520)	mg/kg wet	50	2200	09/06/94
Date Extracted			09/06/94	



REPORT OF LABORATORY ANALYSIS

Mr. Tracy Walker
Page 10

September 22, 1994
PACE Project Number: 440901512

Client Reference: 15422 Goodyear

PACE Sample Number:
Date Collected:
Date Received:
Client Sample ID:
Parameter

70 0386675
08/31/94
09/01/94
MW-3-8'

Units MDL DATE ANALYZED

SUBCONTRACT ANALYSIS

INDIVIDUAL PARAMETERS
No analysis requested

\$ / /

Mr. Tracy Walker
 Page 11

September 22, 1994
 PACE Project Number: 440901512

Client Reference: 15422 Goodyear

PACE Sample Number: 70 0386691
 Date Collected: 08/31/94
 Date Received: 09/01/94
 Client Sample ID: MW-3-13'

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Cadmium (EPA Method 6010/200.7, ICP)	mg/kg wet	1	ND	09/08/94
Chromium (EPA Method 6010/200.7, ICP)	mg/kg wet	1	54	09/08/94
Lead (EPA Method 6010/200.7, ICP)	mg/kg wet	10	ND	09/08/94
Nickel (EPA Method 6010/200.7, ICP)	mg/kg wet	2	84	09/08/94
Zinc (EPA Method 6010/200.7, ICP)	mg/kg wet	1	40	09/08/94

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	09/08/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/kg wet	1000	ND	09/08/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	09/08/94
Benzene	ug/kg wet	5.0	ND	09/08/94
Toluene	ug/kg wet	5.0	ND	09/08/94
Ethylbenzene	ug/kg wet	5.0	ND	09/08/94
Xylenes, Total	ug/kg wet	5.0	ND	09/08/94

EXTRACTABLE FUELS EPA 3550/8015

Extractable Fuels, as Diesel	mg/kg	5.0	ND	09/09/94
Date Extracted			09/06/94	

OIL AND GREASE, SILICA GEL (LUFT)

Oil and Grease, Gravimetric (SM5520)	mg/kg wet	50	ND	09/06/94
Date Extracted			09/06/94	



REPORT OF LABORATORY ANALYSIS

Mr. Tracy Walker
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September 22, 1994
PACE Project Number: 440901512

Client Reference: 15422 Goodyear

PACE Sample Number: 70 0386705
Date Collected: 08/31/94
Date Received: 09/01/94
Client Sample ID: SB-1-5'

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Cadmium (EPA Method 6010/200.7, ICP)	mg/kg wet	1	ND	09/14/94
Chromium (EPA Method 6010/200.7, ICP)	mg/kg wet	1	49	09/14/94
Lead (EPA Method 6010/200.7, ICP)	mg/kg wet	10	ND	09/14/94
Nickel (EPA Method 6010/200.7, ICP)	mg/kg wet	2	99	09/14/94
Zinc (EPA Method 6010/200.7, ICP)	mg/kg wet	5	39	09/14/94

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	09/09/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/kg wet	1000	ND	09/09/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	09/09/94
Benzene	ug/kg wet	5.0	ND	09/09/94
Toluene	ug/kg wet	5.0	ND	09/09/94
Ethylbenzene	ug/kg wet	5.0	ND	09/09/94
Xylenes, Total	ug/kg wet	5.0	ND	09/09/94

EXTRACTABLE FUELS EPA 3550/8015

Extractable Fuels, as Diesel	mg/kg	5.0	ND	09/09/94
Date Extracted			09/06/94	

OIL AND GREASE, SILICA GEL (LUFT)

Oil and Grease, Gravimetric (SM5520)	mg/kg wet	50	100	09/06/94
Date Extracted			09/06/94	

Mr. Tracy Walker
 Page 13

September 22, 1994
 PACE Project Number: 440901512

Client Reference: 15422 Goodyear

PACE Sample Number: 70 0386713
 Date Collected: 08/31/94
 Date Received: 09/01/94
 Client Sample ID: SB-1-8'

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Cadmium (EPA Method 6010/200.7, ICP)	mg/kg wet	1	ND	09/14/94
Chromium (EPA Method 6010/200.7, ICP)	mg/kg wet	1	90	09/14/94
Lead (EPA Method 6010/200.7, ICP)	mg/kg wet	10	ND	09/14/94
Nickel (EPA Method 6010/200.7, ICP)	mg/kg wet	2	130	09/14/94
Zinc (EPA Method 6010/200.7, ICP)	mg/kg wet	5	65	09/14/94

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	09/09/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/kg wet	1000	ND	09/09/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	09/09/94
Benzene	ug/kg wet	5.0	ND	09/09/94
Toluene	ug/kg wet	5.0	ND	09/09/94
Ethylbenzene	ug/kg wet	5.0	ND	09/09/94
Xylenes, Total	ug/kg wet	5.0	ND	09/09/94

EXTRACTABLE FUELS EPA 3550/8015

Extractable Fuels, as Diesel	mg/kg	5.0	ND	09/09/94
Date Extracted			09/06/94	

OIL AND GREASE, SILICA GEL (LUFT)

Oil and Grease, Gravimetric (SM5520)	mg/kg wet	50	ND	09/06/94
Date Extracted			09/06/94	

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September 22, 1994
PACE Project Number: 440901512

Client Reference: 15422 Goodyear

PACE Sample Number: 70 0386721
Date Collected: 08/31/94
Date Received: 09/01/94
Client Sample ID: SB-1-10'

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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SUBCONTRACT ANALYSIS

INDIVIDUAL PARAMETERS

No analysis requested \$ / /



REPORT OF LABORATORY ANALYSIS

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September 22, 1994
PACE Project Number: 440901512

Client Reference: 15422 Goodyear

PACE Sample Number:
Date Collected:
Date Received:
Client Sample ID:
Parameter

70 0386730
08/31/94
09/01/94
SB-1-15'

Units MDL DATE ANALYZED

SUBCONTRACT ANALYSIS

INDIVIDUAL PARAMETERS
No analysis requested

\$ / /



REPORT OF LABORATORY ANALYSIS

Mr. Tracy Walker
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September 22, 1994
PACE Project Number: 440901512

Client Reference: 15422 Goodyear

PACE Sample Number: 70 0386748
Date Collected: 08/31/94
Date Received: 09/01/94
Client Sample ID: SB-1-20'

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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SUBCONTRACT ANALYSIS

INDIVIDUAL PARAMETERS
No analysis requested

\$ / /



REPORT OF LABORATORY ANALYSIS

Mr. Tracy Walker
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September 22, 1994
PACE Project Number: 440901512

Client Reference: 15422 Goodyear

PACE Sample Number: 70 0386756
Date Collected: 08/31/94
Date Received: 09/01/94
Client Sample ID: SB-1-25'

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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SUBCONTRACT ANALYSIS

INDIVIDUAL PARAMETERS
No analysis requested

\$ / /

Mr. Tracy Walker
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September 22, 1994
PACE Project Number: 440901512

Client Reference: 15422 Goodyear

PACE Sample Number:

70 0386802

Date Collected:

08/31/94

Date Received:

09/01/94

Client Sample ID:

MW-1-5'

Parameter

Units

MDL

Extract

DATE ANALYZED

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Chromium (EPA Method 6010/200.7, ICP)	mg/L	0.10	ND	09/14/94
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REPORT OF LABORATORY ANALYSIS

Mr. Tracy Walker
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September 22, 1994
PACE Project Number: 440901512

Client Reference: 15422 Goodyear

PACE Sample Number:	70 0386810
Date Collected:	08/31/94
Date Received:	09/01/94
Client Sample ID:	MW-1-7'
Parameter	<u>Units</u> <u>MDL</u> <u>Extract</u> <u>DATE ANALYZED</u>

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Chromium (EPA Method 6010/200.7, ICP)	mg/L	0.10	ND	09/14/94
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September 22, 1994
PACE Project Number: 440901512

Client Reference: 15422 Goodyear

PACE Sample Number:

70 0386837

Date Collected:

08/31/94

Date Received:

09/01/94

Client Sample ID:

MW-2-5'

Parameter

Units

MDL

Extract

DATE ANALYZED

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Chromium (EPA Method 6010/200.7, ICP)

mg/L

0.10

ND

09/14/94

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September 22, 1994
 PACE Project Number: 440901512

Client Reference: 15422 Goodyear

PACE Sample Number:
 Date Collected:
 Date Received:
 Client Sample ID:
 Parameter

70 0386845
 08/31/94
 09/01/94
 MW-2-8'

Units MDL Extract DATE ANALYZED

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Chromium (EPA Method 6010/200.7, ICP)	mg/L	0.10	ND	09/14/94
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September 22, 1994
PACE Project Number: 440901512

Client Reference: 15422 Goodyear

PACE Sample Number:
Date Collected:
Date Received:
Client Sample ID:
Parameter

70 0386853
08/31/94
09/01/94
MW-3-7'

Units MDL Extract DATE ANALYZED

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Chromium (EPA Method 6010/200.7, ICP)	mg/L	0.10	0.39	09/14/94
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Mr. Tracy Walker
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September 22, 1994
PACE Project Number: 440901512

Client Reference: 15422 Goodyear

PACE Sample Number: 70 0386870
Date Collected: 08/31/94
Date Received: 09/01/94
Client Sample ID: MW-3-13'

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Extract</u>	<u>DATE ANALYZED</u>
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INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Chromium (EPA Method 6010/200.7, ICP)	mg/L	0.10	ND	09/14/94
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September 22, 1994
PACE Project Number: 440901512

Client Reference: 15422 Goodyear

PACE Sample Number:			70 0386888	
Date Collected:			08/31/94	
Date Received:			09/01/94	
Client Sample ID:			SB-1-5'	
<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Extract</u>	<u>DATE ANALYZED</u>

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Chromium (EPA Method 6010/200.7, ICP)	mg/L	0.10	ND	09/14/94
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September 22, 1994
PACE Project Number: 440901512

Client Reference: 15422 Goodyear

PACE Sample Number:			70 0386896	
Date Collected:			08/31/94	
Date Received:			09/01/94	
Client Sample ID:			SB-1-8'	
<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Extract</u>	<u>DATE ANALYZED</u>

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Chromium (EPA Method 6010/200.7, ICP)	mg/L	0.10	ND	09/14/94
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These data have been reviewed and are approved for release.

Darrell C. Cain
Regional Director

Mr. Tracy Walker
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FOOTNOTES
for pages 1 through 25

September 22, 1994
PACE Project Number: 440901512

Client Reference: 15422 Goodyear

\$ Analytical results are not available.
HP Hydrocarbons present do not match profile of laboratory standard.
MDL Method Detection Limit
ND Not detected at or above the MDL.

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QUALITY CONTROL DATA

September 22, 1994
 PACE Project Number: 440901512

Client Reference: 15422 Goodyear

Lead (EPA Method 6010/200.7, ICP)
 Batch: 70 33966
 Samples: 70 0386705, 70 0386713

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	MDL	Method Blank	700389500	Duplicate of 70 0389500	RPD
Cadmium (EPA Method 6010/200.7, ICP)	mg/kg wet	1	ND			
Chromium (EPA Method 6010/200.7, ICP)	mg/kg wet	1	ND			
Lead (EPA Method 6010/200.7, ICP)	mg/kg wet	10	ND	ND	ND	NC
Nickel (EPA Method 6010/200.7, ICP)	mg/kg wet	2	ND			
Zinc (EPA Method 6010/200.7, ICP)	mg/kg wet	5	ND			

SPIKE:

Parameter	Units	MDL	700389500	Spike	Spike Recv
Lead (EPA Method 6010/200.7, ICP)	mg/kg wet	10	ND	46.3	105%

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Cadmium (EPA Method 6010/200.7, ICP)	mg/kg wet	1	5.00	90%
Chromium (EPA Method 6010/200.7, ICP)	mg/kg wet	1	20	98%
Lead (EPA Method 6010/200.7, ICP)	mg/kg wet	10	50	96%
Nickel (EPA Method 6010/200.7, ICP)	mg/kg wet	2	50	96%
Zinc (EPA Method 6010/200.7, ICP)	mg/kg wet	5	50	98%

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QUALITY CONTROL DATA

September 22, 1994
 PACE Project Number: 440901512

Client Reference: 15422 Goodyear

Lead (EPA Method 6010/200.7, ICP)

Batch: 70 33974

Samples: 70 0386802, 70 0386810, 70 0386837, 70 0386845, 70 0386853
 70 0386870, 70 0386888, 70 0386896

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Cadmium (EPA Method 6010/200.7, ICP)	mg/L	0.050	ND
Chromium (EPA Method 6010/200.7, ICP)	mg/L	0.10	ND
Cobalt (EPA Method 6010/200.7, ICP)	mg/L	0.10	ND
Copper (EPA Method 6010/200.7, ICP)	mg/L	0.10	ND
Lead (EPA Method 6010/200.7, ICP)	mg/L	1.0	ND
Nickel (EPA Method 6010/200.7, ICP)	mg/L	0.20	ND
Vanadium (EPA Method 6010/200.7, ICP)	mg/L	0.10	ND
Zinc (EPA Method 6010/200.7, ICP)	mg/L	0.10	ND

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Cadmium (EPA Method 6010/200.7, ICP)	mg/L	0.050	0.50	98%
Chromium (EPA Method 6010/200.7, ICP)	mg/L	0.10	2.0	102%
Cobalt (EPA Method 6010/200.7, ICP)	mg/L	0.10	5.0	108%
Copper (EPA Method 6010/200.7, ICP)	mg/L	0.10	2.5	90%
Lead (EPA Method 6010/200.7, ICP)	mg/L	1.0	5.0	107%
Nickel (EPA Method 6010/200.7, ICP)	mg/L	0.20	5.0	109%
Vanadium (EPA Method 6010/200.7, ICP)	mg/L	0.10	5.0	99%
Zinc (EPA Method 6010/200.7, ICP)	mg/L	0.10	5.0	110%

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QUALITY CONTROL DATA

September 22, 1994
 PACE Project Number: 440901512

Client Reference: 15422 Goodyear

CAM METALS IN SOIL MATRIX, ICP SCAN

Batch: 70 33814
 Samples: 70 0386543, 70 0386551, 70 0386586, 70 0386616, 70 0386667
 70 0386691

METHOD BLANK AND SAMPLE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Method Blank</u>	<u>700386691 MW-3-13'</u>	<u>Duplicate of 70 0386691</u>	<u>RPD</u>
INDIVIDUAL PARAMETERS						
Chromium (EPA Method 6010/200.7, ICP)	mg/kg wet	1		54	39	32%
Lead (EPA Method 6010/200.7, ICP)	mg/kg wet	10		ND	ND	NC
Nickel (EPA Method 6010/200.7, ICP)	mg/kg wet	2		84	72	15%
Zinc (EPA Method 6010/200.7, ICP)	mg/kg wet	1		40	33	19%
CAM METALS IN SOIL MATRIX, ICP SCAN						
Cadmium (EPA Method 6010/200.7, ICP)	mg/kg wet	1		ND	ND	NC
Antimony (EPA Method 6010/200.7, ICP)	mg/kg wet	10	ND			
Barium (EPA Method 6010/200.7, ICP)	mg/kg wet	1	ND			
Beryllium (EPA Method 6010/200.7, ICP)	mg/kg wet	0.7	ND			
Cadmium (EPA Method 6010/200.7, ICP)	mg/kg wet	1	ND			
Chromium (EPA Method 6010/200.7, ICP)	mg/kg wet	1	ND			
Cobalt (EPA Method 6010/200.7, ICP)	mg/kg wet	1	ND			
Copper (EPA Method 6010/200.7, ICP)	mg/kg wet	2	ND			
Lead (EPA Method 6010/200.7, ICP)	mg/kg wet	10	ND			
Molybdenum (EPA Method 6010/200.7, ICP)	mg/kg wet	2	ND			
Nickel (EPA Method 6010/200.7, ICP)	mg/kg wet	2	ND			
Silver (EPA Method 6010/200.7, ICP)	mg/kg wet	1	ND			
Thallium (EPA Method 6010/200.7, ICP)	mg/kg wet	20	ND			
Vanadium (EPA Method 6010/200.7, ICP)	mg/kg wet	1	ND			
Zinc (EPA Method 6010/200.7, ICP)	mg/kg wet	1	ND			

SPIKE:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>700386691 MW-3-13'</u>	<u>Spike</u>	<u>Spike Recv</u>
INDIVIDUAL PARAMETERS					
Chromium (EPA Method 6010/200.7, ICP)	mg/kg wet	1	54	18.	111%
Lead (EPA Method 6010/200.7, ICP)	mg/kg wet	10	ND	46	98%
Nickel (EPA Method 6010/200.7, ICP)	mg/kg wet	2	84	46	78%

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QUALITY CONTROL DATA

September 22, 1994
 PACE Project Number: 440901512

Client Reference: 15422 Goodyear

CAM METALS IN SOIL MATRIX, ICP SCAN

Batch: 70 33814
 Samples: 70 0386543, 70 0386551, 70 0386586, 70 0386616, 70 0386667
 70 0386691

SPIKE:

Parameter	Units	MDL	700386691 MW-3-13'	Spike	Spike Recv
CAM METALS IN SOIL MATRIX, ICP SCAN					
Zinc (EPA Method 6010/200.7, ICP)	mg/kg wet	1	40	46	89%
Cadmium (EPA Method 6010/200.7, ICP)	mg/kg wet	1	ND	4.6	102%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Antimony (EPA Method 6010/200.7, ICP)	mg/kg wet	10	50	93%	88%	6%
Barium (EPA Method 6010/200.7, ICP)	mg/kg wet	1	100	91%	90%	1%
Beryllium (EPA Method 6010/200.7, ICP)	mg/kg wet	0.7	5	89%	88%	1%
Cadmium (EPA Method 6010/200.7, ICP)	mg/kg wet	1	5	89%	89%	0%
Chromium (EPA Method 6010/200.7, ICP)	mg/kg wet	1	20	93%	94%	1%
Cobalt (EPA Method 6010/200.7, ICP)	mg/kg wet	1	50	94%	94%	0%
Copper (EPA Method 6010/200.7, ICP)	mg/kg wet	2	25	88%		
Copper (EPA Method 6010/200.7, ICP)	mg/kg wet	1			86%	2%
Lead (EPA Method 6010/200.7, ICP)	mg/kg wet	10	50	94%	97%	3%
Molybdenum (EPA Method 6010/200.7, ICP)	mg/kg wet	2	100	92%	91%	1%
Nickel (EPA Method 6010/200.7, ICP)	mg/kg wet	2	50	95%	93%	2%
Silver (EPA Method 6010/200.7, ICP)	mg/kg wet	1	5	101%	87%	15%
Thallium (EPA Method 6010/200.7, ICP)	mg/kg wet	20	100	94%	93%	1%
Vanadium (EPA Method 6010/200.7, ICP)	mg/kg wet	1	50	91%	90%	1%
Zinc (EPA Method 6010/200.7, ICP)	mg/kg wet	1	50	90%	91%	1%

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QUALITY CONTROL DATA

September 22, 1994
 PACE Project Number: 440901512

Client Reference: 15422 Goodyear

EXTRACTABLE FUELS EPA 3550/8015

Batch: 70 33841

Samples: 70 0386543, 70 0386551, 70 0386586, 70 0386616, 70 0386667
 70 0386691, 70 0386705, 70 0386713

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Extractable Fuels, as Diesel	mg/kg	5.0	ND

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	700386713 SB-1-8'	Spike	Spike Recv	Spike Dupl Recv	RPD
Extractable Fuels, as Diesel	mg/kg	5.0	ND	33.3	79%	65%	19%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Extractable Fuels, as Diesel	mg/kg	5.0	33.3	80%	71%	12%

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QUALITY CONTROL DATA

September 22, 1994
 PACE Project Number: 440901512

Client Reference: 15422 Goodyear

EXTRACTABLE FUELS EPA 3550/8015
 Batch: 70 34018
 Samples: 70 0386640

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Extractable Fuels, as Diesel	mg/kg	5.0	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dup1 Recv	RPD
Extractable Fuels, as Diesel	mg/kg	5.0	33.3	92%	92%	0%

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QUALITY CONTROL DATA

September 22, 1994
 PACE Project Number: 440901512

Client Reference: 15422 Goodyear

OIL AND GREASE, SILICA GEL (LUFT)
 Batch: 70 33789
 Samples: 70 0386543

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Oil and Grease, Gravimetric (SM5520)	mg/kg wet	50	ND

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	700386543 MW-1-5'	Spike	Spike Recv	Spike Dupl Recv	RPD
Oil and Grease, Gravimetric (SM5520)	mg/kg wet	50	80	667	99%	106%	7%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Oil and Grease, Gravimetric (SM5520)	mg/kg wet	50	667	112%	114%	2%

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QUALITY CONTROL DATA

September 22, 1994
 PACE Project Number: 440901512

Client Reference: 15422 Goodyear

OIL AND GREASE, SILICA GEL (LUFT)

Batch: 70 33811

Samples: 70 0386551, 70 0386586, 70 0386616, 70 0386667, 70 0386691
 70 0386705, 70 0386713

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Oil and Grease, Gravimetric (SM5520)	mg/kg wet	50	ND

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	700386543 MW-1-5'	Spike	Spike Recv	Spike Dupl Recv	RPD
Oil and Grease, Gravimetric (SM5520)	mg/kg wet	50	80	667	99%	106%	7%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Oil and Grease, Gravimetric (SM5520)	mg/kg wet	50	667	&	&	

Mr. Tracy Walker
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QUALITY CONTROL DATA

September 22, 1994
 PACE Project Number: 440901512

Client Reference: 15422 Goodyear

OIL AND GREASE, SILICA GEL (LUFT)
 Batch: 70 34181
 Samples: 70 0386640

METHOD BLANK:

Parameter	Units	MDL	Method
Oil and Grease, Gravimetric (SM5520)	mg/kg wet	50	Blank ND

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	700386543 MW-1-5'	Spike	Spike Recv	Spike Dupl Recv	RPD
Oil and Grease, Gravimetric (SM5520)	mg/kg wet	50	80	667	99%	106%	7%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Oil and Grease, Gravimetric (SM5520)	mg/kg wet	50	667	112%	114%	2%

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QUALITY CONTROL DATA

September 22, 1994
 PACE Project Number: 440901512

Client Reference: 15422 Goodyear

PURGEABLE FUELS AND AROMATICS

Batch: 70 33863

Samples: 70 0386543, 70 0386551, 70 0386586, 70 0386616, 70 0386691

METHOD BLANK:

Parameter	Units	MDL	Method Blank
TOTAL FUEL HYDROCARBONS, (LIGHT):			-
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/kg wet	1000	ND
PURGEABLE AROMATICS (BTXE BY EPA 8020M)			-
Benzene	ug/kg wet	5.0	ND
Toluene	ug/kg wet	5.0	ND
Ethylbenzene	ug/kg wet	5.0	ND
Xylenes, Total	ug/kg wet	5.0	ND

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	750152371	Spike	Spike Recv	Spike Dupl Recv	RPD
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/kg wet	1000	ND	5000	97%	100%	3%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/kg wet	1000	5000	85%	86%	1%

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QUALITY CONTROL DATA

September 22, 1994
 PACE Project Number: 440901512

Client Reference: 15422 Goodyear

PURGEABLE FUELS AND AROMATICS
 Batch: 70 33925
 Samples: 70 0386705, 70 0386713

METHOD BLANK:

Parameter	Units	MDL	Method Blank
TOTAL FUEL HYDROCARBONS, (LIGHT):			-
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/kg wet	1000	ND
PURGEABLE AROMATICS (BTXE BY EPA 8020M)			-
Benzene	ug/kg wet	5.0	ND
Toluene	ug/kg wet	5.0	ND
Ethylbenzene	ug/kg wet	5.0	ND
Xylenes, Total	ug/kg wet	5.0	ND

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	750152371	Spike	Spike Recv	Spike Dupl Recv	RPD
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/kg wet	1000	ND	5000	97%	100%	3%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/kg wet	1000	5000	85%	86%	1%

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QUALITY CONTROL DATA

September 22, 1994
 PACE Project Number: 440901512

Client Reference: 15422 Goodyear

PURGEABLE FUELS AND AROMATICS
 Batch: 70 33930
 Samples: 70 0386667

METHOD BLANK:

Parameter	Units	MDL	Method Blank
TOTAL FUEL HYDROCARBONS, (LIGHT):			-
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/kg wet	1000	ND
PURGEABLE AROMATICS (BTXE BY EPA 8020M)			-
Benzene	ug/kg wet	5.0	ND
Toluene	ug/kg wet	5.0	ND
Ethylbenzene	ug/kg wet	5.0	ND
Xylenes, Total	ug/kg wet	5.0	ND

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	750152371	Spike	Spike Recv	Spike Dupl Recv	RPD
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/kg wet	1000	ND	5000	97%	100%	3%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/kg wet	1000	5000	85%	86%	1%

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QUALITY CONTROL DATA

September 22, 1994
 PACE Project Number: 440901512

Client Reference: 15422 Goodyear

PURGEABLE FUELS AND AROMATICS

Batch: 70 34049
 Samples: 70 0386640

METHOD BLANK:

Parameter	Units	MDL	Method Blank
TOTAL FUEL HYDROCARBONS, (LIGHT):			-
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/kg wet	1000	ND
PURGEABLE AROMATICS (BTXE BY EPA 8020M)			-
Benzene	ug/kg wet	5.0	ND
Toluene	ug/kg wet	5.0	ND
Ethylbenzene	ug/kg wet	5.0	ND
Xylenes, Total	ug/kg wet	5.0	ND

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	700391083	Spike	Spike Recv	Spike Dupl Recv	RPD
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/kg wet	1000	ND	5000	85%	77%	10%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/kg wet	1000	5000	95%	94%	1%

Mr. Tracy Walker
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FOOTNOTES
for pages 27 through 39

September 22, 1994
PACE Project Number: 440901512

Client Reference: 15422 Goodyear

& Recovery not calculated because solution units don't match
MDL Method Detection Limit
NC No calculation due to value below detection limit.
ND Not detected at or above the MDL.
RPD Relative Percent Difference



440901.512

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 08/89

Nº 119190

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME Good Year		PROJECT LOCATION Albany CA	
PROJ. NO. 15422	PROJECT CONTACT Tracy Walker	PROJECT TELEPHONE NO. 510/227-1100	
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR Tracy Walker	

ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE) ID# <i>Le chat #</i>	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										REMARKS				
								TPH Gasoline (mol 8015)	TPH Diesel (mol 8015)	BTEX (8020)	Meth. (CLC, Ph, Ni, Zn) (6010)	A.P.F. Grease (Sm 5522 B:FP)	Chromium (CA WET/6010)									
1	MW-1 5'	8/31/94	1115		X	Soil 38654.3 38680.2	1	X	X	X	X	X	X									
2	MW-1 7'		1120		X	Soil 38655.1 38681.0	1	X	X	X	X	X	X									
3	MW-1 15'		1146		X	soil 38657.8	4 1	X	X	X	X	X	X									
4	MW-2 5'		1425		X	SOIL 38658.6 38683.7	1	X	X	X	X	X	X									
5	MW-2 7'		1430		X	SOIL 38660.8	4 1	X	X	X	X	X	X									
6	MW-2 8'		1432		X	SOIL 38661.6 38684.5	1	X	X	X	X	X	X									
7	MW-2 13'		1450		X	SOIL 38663.2	11 1	X	X	X	X	X	X									
8	MW-3 5'		1535		X	SOIL 38664.0	11 1	X	X	X	X	X	X									
9	MW-3 7'		1540		X	SOIL 38666.7 38685.3	1	X	X	X	X	X	X									
10	MW-3 8'		1548		X	SOIL 38667.5	1	X	X	X	X	X	X									

HOLD FOR APPROVAL

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	10	Tracy Walker	[Signature]	9/1/94	1125	1. Standard ferrarand
2		[Signature]	[Signature]	9/1/94	1100	2. Hold samples until receiving approval from O&M. G/FLOOR
3						[Signature]
4						SAMPLER'S SIGNATURE

**CHAIN-OF-CUSTODY RECORD
Analytical Request**

Client OHM
Address _____
Phone _____

Report To: _____
Bill To: _____
P.O. # / Billing Reference _____
Project Name / No. _____

Pace Client No. _____
Pace Project Manager _____
Pace Project No. _____
*Requested Due Date: _____

Sampled By (PRINT): _____
Sampler Signature _____ Date Sampled _____

NO. OF CONTAINERS	PRESERVATIVES				ANALYSES REQUEST	REMARKS
	UNPRESERVED	H ₂ SO ₄	HNO ₃	VOA		
					<i>diezel 8015 gas/BTEX 01/9</i>	
1						
2						
3						
4						
5						
6						
7						
8						

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.
1	038664.0			
2				
3				
4				
5				
6				
7				
8				

COOLER NOS.	BAILERS	SHIPMENT METHOD		ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
		OUT / DATE	RETURNED / DATE					

Additional Comments
added 9/14/94



440901.512

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 08/89

Nº 119170

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME <i>Goodyear</i>		PROJECT LOCATION <i>Albany OH</i>	
PROJ. NO. <i>15422</i>	PROJECT CONTACT <i>Tracy Walker</i>	PROJECT TELEPHONE NO. <i>510/227-1100</i>	
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR <i>Tracy Walker</i>	

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										REMARKS					
								TPH Gasoline (mod 8015)	TPH Diesel (mod 8015)	BTX (8020)	Metals (Cd, Cr, Pb, Ni, Zn) (6010)	Oil & Grease (5520 B & F)	Chromium (Cr WET/6010)										
1	MW-3 13'	8/13/94	1556		X	SOIL ^{ID#} 38669.1 _{Leachate#} 38687.0	1	X	X	X	X	X	X										
2	SB-1 5'		0845		X	SOIL 38670.5 38688.8	1	X	X	X	X	X	X										
3	SB-1 8'		0852		X	SOIL 38671.3 38689.6	1	X	X	X	X	X	X										
4	SB-1 10'		0856		X	SOIL 38672.1	1	X	X	X	X	X	X										
5	SB-1 15'		0933		X	SOIL 38673.0	1	X	X	X	X	X	X										
6	SB-1 20'		1000		X	SOIL 38674.8	1	X	X	X	X	X	X										
7	SB-1 25'		1008		X	SOIL 38675.6	1	X	X	X	X	X	X										
8																							
9																							
10																							

HOLD FOR APPROVAL

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	7	Tracy Walker	<i>[Signature]</i>	9/1/94	1125
2		Brenda Doff	<i>[Signature]</i>	9/1/94	1100
3					
4					

REMARKS

- Standard turnaround
- Hold samples until receiving approval from OHM

[Signature]
G/FLOOR

SAMPLER'S SIGNATURE

September 27, 1994

Mr. Tracy Walker
O.H. Materials Corp.
5731 West Las Positas Boulevard
Pleasanton, CA 94588

RE: PACE Project No. 440908.510
Client Reference: Goodyear #15422

Dear Mr. Walker:

Enclosed is the report of laboratory analyses for samples received September 08, 1994.

Footnotes are given at the end of the report.

If you have any questions concerning this report, please feel free to contact us.

Sincerely,



Shellie L. Hoyt-Weeks
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

O.H. Materials Corp.
 5731 West Las Positas Boulevard
 Pleasanton, CA 94588

September 27, 1994
 PACE Project Number: 440908510

Attn: Mr. Tracy Walker

Client Reference: Goodyear #15422

PACE Sample Number: 70 0390125
 Date Collected: 09/07/94
 Date Received: 09/08/94
 MW-1

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Cadmium (EPA Method 6010/200.7, ICP)	mg/L	0.006	ND	09/22/94
Chromium (EPA Method 6010/200.7, ICP)	mg/L	0.01	0.15	09/22/94
Lead (EPA Method 6010/200.7, ICP)	mg/L	0.1	ND	09/22/94
Nickel (EPA Method 6010/200.7, ICP)	mg/L	0.02	0.34	09/22/94
Zinc (EPA Method 6010/200.7, ICP)	mg/L	0.01	0.13	09/22/94

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	09/15/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	09/15/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	09/15/94
Benzene	ug/L	0.5	ND	09/15/94
Toluene	ug/L	0.5	ND	09/15/94
Ethylbenzene	ug/L	0.5	ND	09/15/94
Xylenes, Total	ug/L	0.5	ND	09/15/94

EXTRACTABLE FUELS EPA 3510/8015

Extractable Fuels, as Diesel	mg/L	0.05	0.08	09/15/94
Date Extracted			09/12/94	

OIL AND GREASE, SILICA GEL (LUFT)

Oil and Grease, Gravimetric (SM5520)	mg/L	.5.0	ND	09/20/94
Date Extracted			09/19/94	

REPORT OF LABORATORY ANALYSIS

Mr. Tracy Walker
 Page 2

September 27, 1994
 PACE Project Number: 440908510

Client Reference: Goodyear #15422

PACE Sample Number: 70 0390133
 Date Collected: 09/07/94
 Date Received: 09/08/94
 Client Sample ID: MW-2

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

-Cadmium (EPA Method 6010/200.7, ICP)	mg/L	0.006	ND	09/22/94
Chromium (EPA Method 6010/200.7, ICP)	mg/L	0.01	0.11	09/22/94
Lead (EPA Method 6010/200.7, ICP)	mg/L	0.1	ND	09/22/94
Nickel (EPA Method 6010/200.7, ICP)	mg/L	0.02	0.18	09/22/94
Zinc (EPA Method 6010/200.7, ICP)	mg/L	0.01	0.12	09/22/94

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	09/15/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	09/15/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			- (1)	09/15/94
Benzene	ug/L	0.5	ND	09/15/94
Toluene	ug/L	0.5	ND	09/15/94
Ethylbenzene	ug/L	0.5	1.1	09/15/94
Xylenes, Total	ug/L	0.5	1.5	09/15/94

EXTRACTABLE FUELS EPA 3510/8015

Extractable Fuels, as Diesel	mg/L	0.05	ND	09/15/94
Date Extracted			09/12/94	

OIL AND GREASE, SILICA GEL (LUFT)

Oil and Grease, Gravimetric (SM5520)	mg/L	5.0	ND	09/20/94
Date Extracted			09/19/94	

Mr. Tracy Walker
 Page 3

September 27, 1994
 PACE Project Number: 440908510

Client Reference: Goodyear #15422

PACE Sample Number: 70 0390141
 Date Collected: 09/07/94
 Date Received: 09/08/94
 Client Sample ID: MW-3

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>		<u>DATE ANALYZED</u>
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INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Cadmium (EPA Method 6010/200.7, ICP)	mg/L	0.006	ND	09/22/94
Chromium (EPA Method 6010/200.7, ICP)	mg/L	0.01	0.02	09/22/94
Lead (EPA Method 6010/200.7, ICP)	mg/L	0.1	ND	09/22/94
Nickel (EPA Method 6010/200.7, ICP)	mg/L	0.02	ND	09/22/94
Zinc (EPA Method 6010/200.7, ICP)	mg/L	0.01	0.04	09/22/94

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS

TOTAL FUEL HYDROCARBONS, (LIGHT):			-	09/15/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	09/15/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	09/15/94
Benzene	ug/L	0.5	ND	09/15/94
Toluene	ug/L	0.5	ND	09/15/94
Ethylbenzene	ug/L	0.5	ND	09/15/94
Xylenes, Total	ug/L	0.5	ND	09/15/94

EXTRACTABLE FUELS EPA 3510/8015

Extractable Fuels, as Diesel	mg/L	0.05	ND	09/15/94
Date Extracted			09/12/94	

OIL AND GREASE, SILICA GEL (LUFT)

Oil and Grease, Gravimetric (SM5520)	mg/L	5.0	ND	09/20/94
Date Extracted			09/19/94	

Mr. Tracy Walker
Page 4

September 27, 1994
PACE Project Number: 440908510

Client Reference: Goodyear #15422

PACE Sample Number: 70 0390150
Date Collected: 09/07/94
Date Received: 09/08/94
Client Sample ID: Trip Blank

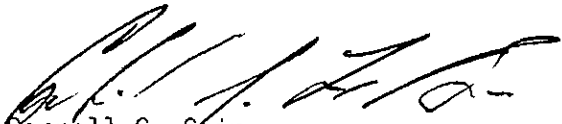
<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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SUBCONTRACT ANALYSIS

INDIVIDUAL PARAMETERS

No analysis requested \$ / /

These data have been reviewed and are approved for release.


Darrell C. Cain
Regional Director

Mr. Tracy Walker
Page 5

FOOTNOTES
for pages 1 through 4

September 27, 1994
PACE Project Number: 440908510

Client Reference: Goodyear #15422

\$ Analytical results are not available.
MDL Method Detection Limit
ND Not detected at or above the MDL.
(1) Compounds confirmed by secondary column.