HORIZON ENVIRONMENTAL INC.

Specialists in Site Assessment, Remedial Testing, Design and Operation

November 11, 1996

Ms. Eva Chu
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502

Subject: Transmittal of PSA Report
Winner Ford, 1650 Park Street, Alameda, California.

Ms. Chu:

At the request of Ms. Michelle Nokes of Winner Ford, Horizon Environmental Inc. (Horizon) is transmitting to you this Preliminary Subsurface Assessment Report dated November 11, 1996 for the above-referenced site.

Please call us at 916-939-2170 should you have any questions regarding this site.

Sincerely,
Horizon Environmental Inc.

Gary D. Barker
Senior Project Manager

enclosure: Monitoring Well Completion and Preliminary Subsurface Assessment Report

cc: Ms. Michelle Nokes, Winner Ford

5011 Golden Foothill Parkway, Suite 7 • El Dorado Hills CA 95762 • (916) 939-2170 • FAX (916) 939-2172
PO Box 5283 • Bakersfield, CA 93388 • (805) 589 8389 • FAX (805) 589-1456

HORIZON ENVIRONMENTAL INC.

Specialists in Site Assessment, Remedial Testing, Design and Operation

MONITORING WELL COMPLETION AND PRELIMINARY SUBSURFACE ASSESSMENT REPORT

at

Winner Ford
1650 Park Street
Alameda, California

for

Winner Ford
1650 Park Street
Alameda, California

by

Horizon Environmental Inc.

Report No. 3002.11

Gary D. Barker
Senior Project Manager
REA-00868

Dayne L. Frary, R.G.
Dayne L. Frary
Registered Geologist No 4456
Registered Environmental Assessor No. 02980

November 11, 1996

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MONITORING WELL COMPLETION AND SUBSURFACE ASSESSMENT REPORT

at

Winner Ford

1650 Park Street

Alameda, California

INTRODUCTION

At the request of Winner Ford, Horizon Environmental Inc. (Horizon) conducted a subsurface investigation at Winner Ford, located at the southeast corner of Park Street and Buena Vista Avenue in Alameda, California (see Figure 1). This field investigation included the drilling and sampling of two exploratory soil borings (B-1 and B-2); the completions of groundwater monitoring wells MW-1 and MW-2 in borings B-1 and B-2; and collecting soil samples by hand-auger from beneath the former dispenser island. The monitoring wells were drilled in order to assess the extent of petroleum hydrocarbon impaction on the north side of the former location of a 500-gallon capacity, gasoline, underground storage tank (UST), and on the northeast side of the former location of a 100-gallon capacity, waste-oil UST. The work was performed in accordance with the Work Plan dated March 8, 1996, prepared by Horizon Environmental Inc. (Horizon). The Work Plan was approved by the Alameda County Health Care Services Agency, Department of Environmental Health (ACHCSA-DEH) in a letter dated March 21, 1996.

SITE DESCRIPTION AND BACKGROUND

Winner Ford is an automobile dealership and showroom located on the southeast corner of the intersection of Park Street and Buena Vista Avenue in Alameda, California, as depicted on the Site Vicinity Map (Figure 1). The site is approximately 0.4 miles south of the Oakland Inner Harbor and approximately 1 mile north of San Leandro Bay; it is located within a primarily commercial area of Alameda. Site facilities include a building with enclosed offices, an automobile showroom, and an automobile storage warehouse. The remaining portion of the property is used to store automobiles. The site is primarily asphalt-paved with some areas of concrete. The former gasoline UST was located beneath the sidewalk between the main building and Buena Vista Avenue, and the former waste-oil UST was located beneath the sidewalk between the main building and Park Street. The locations of these facilities and other pertinent site features are shown on the Site Plan (Figure 2). The waste-oil UST had not been used since the commencement of Winner Ford's lease in 1986. The gasoline UST was last used by Winner Ford in 1993 and was precision-tested in January 1994, at which time it was certified "tight".

In August 1995, Blymyer Engineers, Inc. (Blymyer) was present on-site to observe the removal of a 500-gallon capacity, single-walled, steel, unleaded gasoline storage tank, and a 100-gallon capacity, single-walled, steel, waste-oil tank, and soil sampling related to removal the USTs, gasoline dispenser, and the associated product lines (Blymyer, November 22, 1995). Piping connecting a former sump drain to the waste-oil tank was removed during the waste-oil tank removal. The approximate locations of the former USTs are depicted on Figure 2. The gasoline product lines were rinsed, grouted, and left in place. The pipeway to the concrete dispenser island was filled with concrete and the dispenser island was left in place. The soil samples collected and analyzed from the gasoline UST, gasoline dispenser, and product line removal indicated that soil containing gasoline hydrocarbons at a

concentration of 7100 parts per million (ppm) remained after excavation of the gasoline UST basin to a depth of approximately 8 feet below surface grade (bsg), and Total Petroleum Hydrocarbons as gasoline (TPHg) concentrations of 46,000 ppm remained beneath the dispenser island at a depth of approximately 3 inches bsg. The soil samples collected and analyzed from beneath the former waste-oil UST revealed that the soil containing Total Recoverable Petroleum Hydrocarbons (TRPH) at a concentration of 3100 ppm remained after the excavation of the waste-oil UST basin to a depth of approximately 6.5 feet bsg. No Total Petroleum Hydrocarbons as diesel (TPHd), volatile organic compounds (VOCs), or California Assessment Manual (CAM)-17 metals exceeding 10 times their respective STLC or TCLP values were detected above the laboratory detection limits in any of the soil samples analyzed. The semivolatile organic compounds (SVOCs) benzo (a) anthracene, chrysene, and pyrene, were detected in the soil sample collected at a depth of approximately 6.5 feet bsg from the waste-oil basin and contained reported concentrations of 330 parts per billion (ppb), 400 ppb, and 520 ppb, respectively. No other SVOCs were detected at the laboratory detection limits.

Blymyer reported the soil type observed in both UST basins to be clayey sand. Blymyer also reported that initial groundwater was encountered in the gasoline UST basin at a depth of approximately 9 feet beneath the site. The groundwater flow direction beneath the site was estimated north-northeasterly based on surficial topographic contours and concurring data obtained from adjacent sites.

DRILLING AND SOIL SAMPLING

Field work was conducted on July 11 and 12, 1996, in accordance with the Work Plan for a Subsurface Investigation, dated March 21, 1996. Prior to drilling, Underground Service Alert was notified. Groundwater Protection Ordinance Permit No. 96391 was obtained from the Alameda County Flood Control and Water Conservation District, and Encroachment Permit No. EN96-054 was obtained from the City of Alameda Engineering Office. Copies of the permits are included as Appendix A. Horizon Field Methods and Procedures are included as Appendix B.

On July 11, 1996, a Horizon geologist observed the drilling of two exploratory soil borings completed as monitoring wells MW-1 and MW-2. An additional soil boring, B-1, was hand-augered in the building. The boring locations were previously selected in order to assess gasoline and waste-oil which had apparently leaked from the former steel USTs; the unauthorized releases were discovered during UST removal operations.

Drilling was performed by Mitchell Drilling Environmental, Inc. of Rancho Cordova, California. The monitoring wells were drilled using a truck-mounted, CME-75 drill rig equipped with 8-inch diameter, hollow-stem augers.

The borings for MW-1 and MW-2 were both advanced to a total depth (T.D.) of 25 feet bsg. The soils encountered consisted primarily of dense, grey-brown, silty clays with some orange mottling and blue-green staining. Boring B-1 was hand-augered to the soil-water interface at 7 feet bsg where a soil sample was collected from the auger. Groundwater was encountered in the boring for MW-1 at 6.25 feet bsg. In the boring for MW-2, groundwater was encountered at 14.2 feet bsg. The locations of the soil boring and monitoring wells are depicted on Figure 2.

During drilling, soil samples were collected from each boring at 5-foot intervals from the surface to T.D.. Soil samples and cuttings were evaluated for the presence of petroleum hydrocarbon vapors with an organic vapor meter (OVM). Boring Logs for MW-1 and MW-2 are included as Appendix C and were prepared in accordance with the descriptive Unified Soil Classification System (USCS). A copy of the USCS is shown on the Boring Log Symbol Key, also included within Appendix C.

SOIL ANALYTICAL RESULTS

Soil samples collected from each boring and the stockpiled soil were submitted under chain-of-custody (CoC) to Excelchem Environmental Labs in Roseville, California. Soil samples submitted for laboratory analysis were selected based on the field-screening evaluation for the presence of petroleum hydrocarbons in the soil samples. The selected soil samples were analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg) by U.S. Environmental Protection Agency (EPA) Modified Method 8015; for benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8020; for methyl tertiary butyl ether (MTBE) by EPA Method 5030 followed by EPA Method 8020; and for Total Oil and Grease by Standard Method 5520-B. Additionally, four soil samples collected from the stockpile of soil cuttings were composited in the laboratory and analyzed for TPHg, BTEX, and Total Oil and Grease using the aforementioned laboratory methods. Following receipt of the laboratory results, the soil will be transported from the site. Soil analytical results are compiled in Table 1, and the laboratory reports including the CoC are included as Appendix D.

COMPLETIONS OF MONITORING WELLS

Monitoring wells MW-1 and MW-2 were completed with 2-inch diameter, Schedule 40 PVC slotted casing in the interval from 5 to 25 feet. No. 3 Monterey sand was packed around the screen from 25 to 4.5 feet bsg in each well. The hydrated bentonite seal was placed from 4.5 to 3.5 feet bsg in each well, and each was cemented from approximately 3.5 feet to inches below surface grade. Well boxes for each wellhead were set in concrete. Completion details are diagrammed on the boring logs of MW-1 and MW-2, included as Appendix B. On July 12, the water level was sounded at 6.04 feet in MW-1; it was sounded at 7.55 feet in MW-2.

GROUNDWATER ANALYTICAL RESULTS

Monitoring wells MW-1 and MW-2 were developed and sampled on July 16, 1996. Samples from each well were submitted to Excelchem for TPHg by EPA Modified Method 8015, and for BTEX and MTBE constituents by EPA Method 602. The laboratory reported 222 µg/L of TPHg, 62.8 µg/L of benzene, and 267 µg/L of MTBE in the sample collected from MW-1. The sample collected from MW-2 exhibited 1.1 µg/L of benzene. The State of California Maximum Contaminant Limit (MCL) for benzene is 1 µg/L. The State of California interim action level established in 1991 for MTBE is 35 µg/L.

MW-2 was sampled again on July 29, 1996. The sample was submitted to the laboratory for Total Petroleum and Grease analysis by Standard Method 5520-B. It was not detected at or greater than the laboratory reporting limit of 10 mg/L. All groundwater analytical results are compiled in Table 2. The laboratory reports and chains-of-custody for groundwater analyses are included as Appendix E.

CONCLUSIONS

Based on the data collected during this investigation, Horizon concludes the following:

- The soil in the immediate area of MW-2 contains a low-to-moderate concentration of Total Oil and Grease.

- Gasoline hydrocarbons have impacted the groundwater underlying the former gasoline UST location.

- Hydrocarbon impacted soil discovered beneath the former dispenser during removal was superfical and does not extend below 5 feet bsg.

- Total Oil and Grease impaction discovered in the soil around the former waste-oil tank does not appear to have impacted the groundwater.

RECOMMENDATIONS

Based on the data collected during this investigation, we believe that groundwater monitoring of MW-1 and MW-2 be conducted. If possible, monitoring activities should include surrounding properties with existing monitoring wells. These data should then be evaluated to determine if additional assessment or remediation is warranted.

DISTRIBUTION

Copies of this report should be forwarded to:

Mr. Wyman Hong
Alameda County Flood Control
and Water Conservation Disterict
5997 Parkside Drive
Pleasanton, California 94588-5127

Ms. Eva Chu
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Mr. Kevin Graves
California Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, California 94612

LIMITATIONS

This report was prepared in accordance with the methods and procedures described in the attached field methods, and generally accepted standards for the practice of the environmental and geological sciences in California at the time of the investigation. The investigation was conducted solely for the purpose of evaluating environmental conditions of the soil and groundwater with respect to gasoline- and diesel-related hydrocarbons at the site.

No soil engineering or geotechnical references are implied, nor should any be inferred. Evaluation of the geological conditions at the site for the purpose of this investigation is made from a limited number of observation points. Subsurface conditions may vary away from the available data points. This report is the property of Horizon Environmental and Winner Ford for their use and distribution.

REFERENCES CITED

Horizon Environmental Inc., March 8, 1996. Workplan for a Subsurface Investigation at Winner Ford, 1650 Park Street, Alameda, California.

Blymyer Engineers Inc., November 22, 1995. Letter Report: Underground Storage Tank Closure at Winner Ford, 1650 Park Street, Alameda, California.

TABLE 1
ANALYTICAL RESULTS OF SOIL SAMPLES

Winner Ford
1650 Park Street
Alameda, California

Sample Number & Depth	Date	Total Oil & Grease mg/Kg	TPHg mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethyl-benzene mg/Kg	Total Xylenes mg/Kg	MTBE mg/Kg
S-MW1-5	07/11/96	NA	22.2	0.05	0.217	0.152	0.903	0.64
S-MW2-5	07/11/96	114	ND	ND	ND	ND	ND	NA
S-MW2-10	07/11/96	92	ND	ND	ND	ND	ND	NA
S-B1-5	07/11/96	NA	ND	ND	ND	ND	ND	ND
S-B1-7	07/11/96	NA	ND	ND	ND	ND	ND	ND
Composite Sample S-SP-A, B, C, D	07/11/96	790	ND	ND	ND	ND	ND	ND

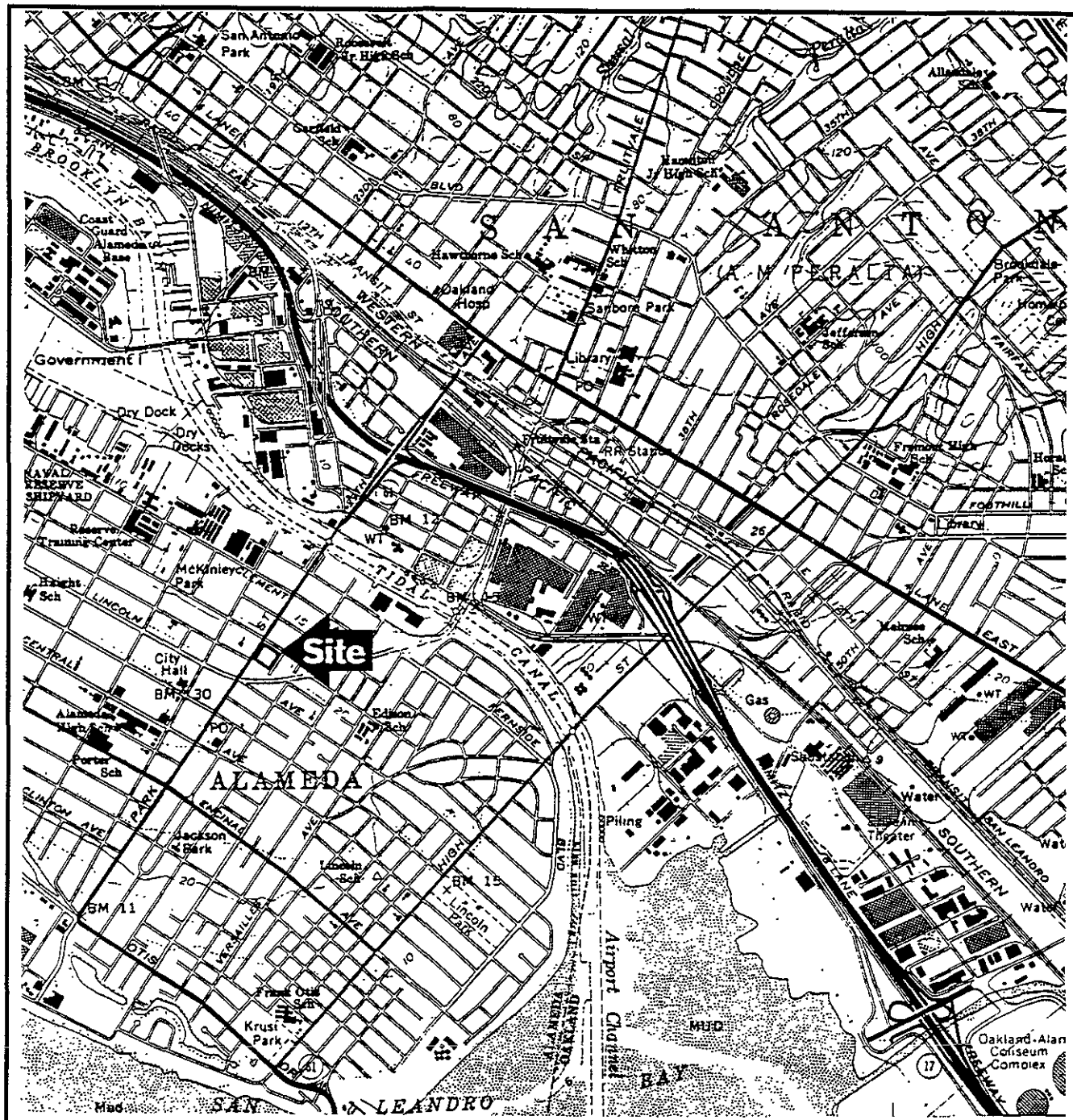
Notes: TPHg = Total Petroleum Hydrocarbons as gasoline
MTBE = methyl tertiary butyl ether
mg/Kg = milligrams per kilogram or parts per million
NA = not analyzed for
ND = not detected at or greater than the indicated laboratory reporting limit

TABLE 2
ANALYTICAL RESULTS OF GROUNDWATER SAMPLES

Winner Ford
1650 Park Street
Alameda, California

Well Sample Number	Date	Total Oil & Grease mg/L	TPHg µg/L	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Total Xylenes µg/L	MTBE µg/L
W-0716-MW1	07/16/96	NA	222	62.8	34.3	5.75	32.1	267
W-0716-MW2	07/16/96	NA	ND	1.1	ND	ND	1.05	NA
W-0729-MW2	07/29/96	ND	NA	NA	NA	NA	NA	NA

Notes: TPHg = Total Petroleum Hydrocarbons as gasoline
MTBE = methyl tertiary butyl ether
µg/L = micrograms per liter or parts per billion
mg/L = milligrams per liter or parts per million
NA = not analyzed for
ND = not detected at or greater than the indicated laboratory reporting limit



Source. U S G.S. 7–1/2 Minute Topographic Map
Oakland East, California
Photorevised 1980

HORIZON ENVIRONMENTAL INC.

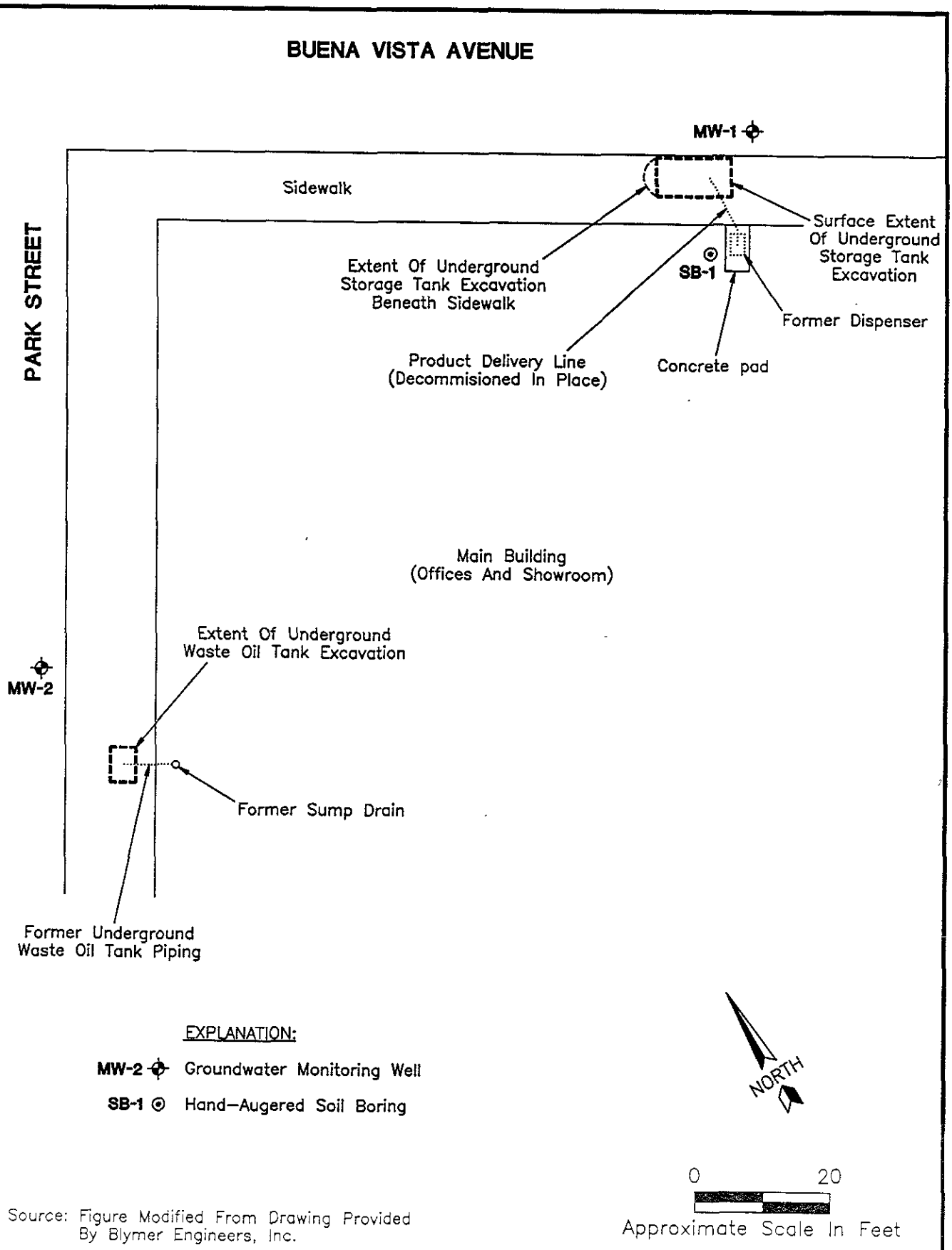
Project Number: 3002.11	Drawn By: D Alston
Prepared By G Barker	Date. 2/96
Reviewed By	Revised Date

SITE VICINITY MAP

WINNER FORD
1650 PARK STREET
ALAMEDA, CALIFORNIA

FIGURE

1



Source: Figure Modified From Drawing Provided By Blymer Engineers, Inc.

HORIZON ENVIRONMENTAL INC.

Project Number: 3002.11	Drawn By. D. Alston
Prepared By: G. Barker	Date: 8/96
Reviewed By:	Revised Date:

SITE PLAN

WINNER FORD
1650 PARK STREET
ALAMEDA, CALIFORNIA

FIGURE

2

APPENDIX A

ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
5997 PARKSIDE DRIVE • PLEASANTON, CALIFORNIA 94566 • (415) 484-2600

GROUNDWATER PROTECTION ORDINANCE PERMIT APPLICATION

Fax (510) 462-3914

FOR APPLICANT TO COMPLETE

(1) LOCATION OF PROJECT WINNER FORD
1650 PARK STREET
ALAMEDA, CA 94502

(2) CLIENT
Name WINNER FORD
Address 1650 PARK STREET Phone —
City ALAMEDA Zip 94502

(3) APPLICANT
Name HARLEQUIN ENVIRONMENTAL INC
Address 5011 GOLDEN FOOTHILL PKWY, SUITE 7 Phone (916) 939-2170
City EL DORADO HILLS Zip _____

(4) DESCRIPTION OF PROJECT
Water Well Construction X Geotechnical ___
Cathodic Protection ___ Well Destruction ___

(5) PROPOSED WATER WELL USE
Domestic ___ Industrial ___ Irrigation ___
Municipal ___ Monitoring X Other _____

(6) PROPOSED CONSTRUCTION
Drilling Method:
Mud Rotary ___ Air Rotary ___ Auger X
Cable ___ Other _____

WELL PROJECTS
Drill Hole Diameter 8 in. Depth(s) 20 ft.
Casing Diameter 2 in. Number of Wells 2
Surface Seal Depth 7 ft.
Driller's License No. _____

GEOTECHNICAL PROJECTS
Number ___
Diameter ___ in. Maximum Depth ___ ft.

(7) ESTIMATED STARTING DATE 5/23/96
ESTIMATED COMPLETION DATE 5/24/96

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

APPLICANT'S SIGNATURE Gary D. Parker Date 5/3/96

FOR OFFICE USE

PERMIT NUMBER 96391
LOCATION NUMBER _____

Approved Wyman Hong Date 3 Jun 96
Wyman Hong

PERMIT CONDITIONS

Circled Permit Requirements Apply

(A.) GENERAL
1. A permit application should be submitted so as t arrive at the Zone 7 office five days prior t proposed starting date.
2. Notify this office (484-2600) at least one d prior to starting work on permitted work a before placing well seals.
3. Submit to Zone 7 within 60 days after completi of permitted work the original Department Water Resources Water Well Drillers Report equivalent for well projects, or bore hole lo and location sketch for geotechnical project Permitted work is completed when the last surfa seal is placed or the last boring is completed.
4. Permit is void if project not begun within days of approval date.

(B.) WATER WELLS, INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches cement grout placed by tremie, or equivalent.
2. Minimum seal depth is 50 feet for municipal industrial wells or 20 feet for domestic, irrig tion, and monitoring wells unless a lesser de is specially approved.

C. GEOTECHNICAL. Backfill bore hole with compacted c tings or heavy bentonite and upper two feet with c pacted material.

D. CATHODIC. Fill hole above anode zone with concr placed by tremie, or equivalent.

E. WELL DESTRUCTION. See attached.

~3002.11

CITY OF ALAMEDA
CENTRAL PERMIT OFFICE 415-522-4100
2263 SANTA CLARA AVE., ROOM 204
ALAMEDA, CA 94501

APPLICATION FOR PERMIT TO EXCAVATE IN THE RIGHT-OF-WAY OF THE CITY OF ALAMEDA

_____ SERVICE NUMBER DATE APRIL 17 19 96

Application is hereby made for a permit to excavate on the SOUTH ~~side~~ AND EAST side of THE INTERSECTION OF BUENA VISTA AVE & PARK ST. St. APPROXIMATELY 85 feet SOUTH & EAST of THE INTERSECTION - DRILLING WILL BE IN PERFORMED IN PARKING AREAS & NO TRAFFIC FLOW WILL BE INTERFERED WITH.

House No. 1450 PARK ST. #1 Owner WINNER FORD

For the purpose of INSTALLATION OF GROUNDWATER MONITORING WELLS MW-1 & MW-2 (SEE ATTACHED DIAGRAM) ON MAY 15TH, 1996

Name of Applicant HORIZON ENVIRONMENTAL INC Address 5011 GOLDEN FOOTHILL PARKWAY, SUITE 7 EL DORADO HILLS, CA 95762

Phone (916) 939-2170

☐ VERBAL APPROVAL
Date _____
By _____
Reasons: _____

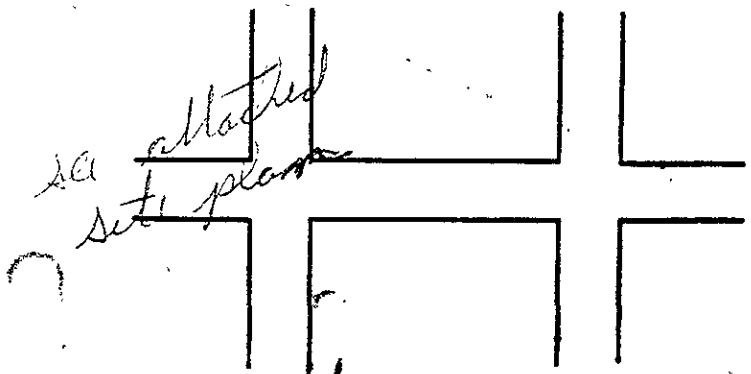


Diagram of Proposed Work

FOR OFFICE USE ONLY

This permit to be Inspected by ☒ ENGINEERING DIVISION ☐ MAINTENANCE DIVISION

☐ ALL STRIPING, PAINTED GRAPHICS AND PAVEMENT MARKERS DAMAGED OR DESTROYED BY STREET EXCAVATION WORK ARE TO BE RESTORED BY THE PERMITEE.

☐ ALL CONSTRUCTION WITHIN THE PUBLIC RIGHT OF WAY MUST HAVE BARRICADES WITH FLASHERS FOR NIGHT TIME PROTECTION.

☐ ALL WORK INVOLVED IS TO BE DONE IN ACCORDANCE WITH STANDARD CITY OF ALAMEDA SPECIFICATIONS AND CITY OF ALAMEDA PRACTICES ALL TO THE SATISFACTION OF THE CITY ENGINEER. INSPECTION CHARGES SHALL BE PAID TO THE CITY MONTHLY. ACCEPTANCE OF THIS PERMIT CONSTITUTES ACCEPTANCE OF THE CONDITIONS INCLUDED.

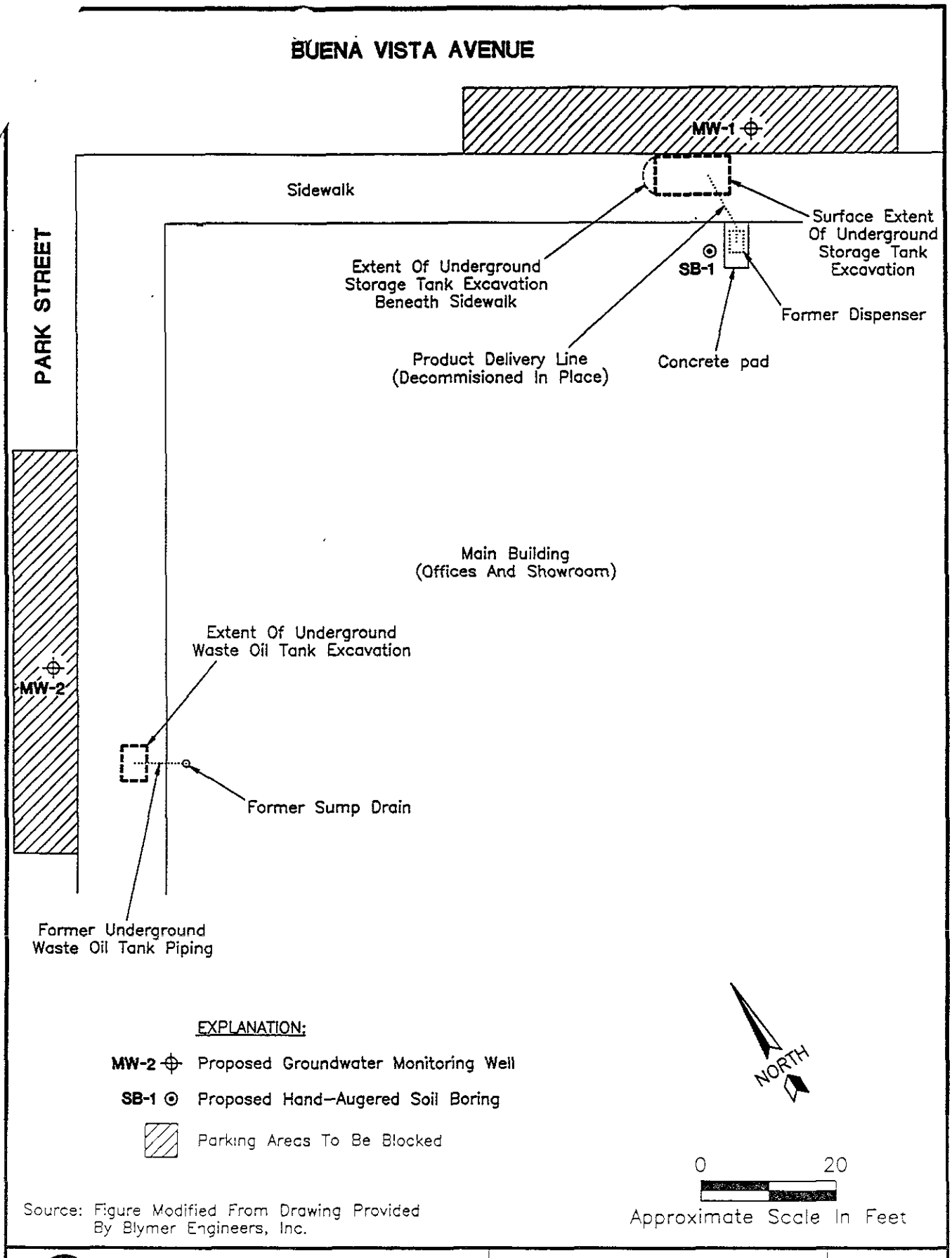
☐ CONCRETE PERMIT REQUIRED _____ SIGNATURE 5-9-96 DATE

☐ NO OPEN TRENCH CUTTING

☐ STATE PERMIT REQUIRED _____ CLEAR SIGNATURE DATE

☐ SPECIAL CONDITIONS NOTIFY CARY DAWSON 415 [illegible] 72 HRS PRIOR

RECEIVED DATE 5/6/96 SIGNED Paul Moore PERMIT # EN96-054
APPROVAL DATE 5/9/96 SIGNED _____
ISSUED DATE 5/9/96 SIGNED Paul Moore



Source: Figure Modified From Drawing Provided By Blymer Engineers, Inc.

HORIZON ENVIRONMENTAL INC.

Project Number: 3002.11	Drawn By: D. Alston
Prepared By: G. Barker	Date: 2/96
Reviewed By:	Revised Date:

SITE PLAN

WINNER FORD
1650 PARK STREET
ALAMEDA, CALIFORNIA

FIGURE

2

OF ALAMEDA
INEERING OFFICE
0 Central Ave., Room 250
ameda, CA 94501 748-4614 or 748-4519

ENCROACHMENT PERM Permit No:
STATUS:
Applied
Approved

JOB ADDRESS : 1650 PARK ST
Parcel number : 070 -0191-001-01
OWNER : BALL JULIE B & BECK PETER R & KL
2720 BRODERICK ST
SAN FRANCISCO CA 94123
APPLICANT : HORIZON ENVIRONMENTAL INC.
5011 GOLDEN FOOTHILL PKWY #7
EL DORADO HILLS, CA 95762
916-939-2170

HOURS OF CONSTRUCTION
MONDAY - FRIDAY
SATURDAY & SUNDAY 9 A.M.

Repair Order # : INSTALL MONITORING WELLS
Project Desc. : INSTALL MONTIORING WELLS (WINNER FORD)

Signature

Fee description	Units	Fee/Unit	Ext. Fee
PERMIT FILING FEE	20.50		20.50
ASSEMBLY BILL 941	5.00		5.00
ENCROACHMENT - METERS	27.00		27.00
CPD - OTHER REVENUE	86.00		86.00
"NO PARKING" SIGNS	12.00		12.00
ADDITIONAL MICROFICHE FEE	4.00		4.00

*** Fees Required ***

*** Fees Collected & Credits

Account No.	Receipt No.	Date	Payment
001-300-4240-3745	R9601951	05/06/96	20.50
001-300-4240-3305	R9601951	05/06/96	5.00
224-300-0000-3733	R9601951	05/06/96	27.00
001-300-4240-3790	R9601951	05/06/96	86.00
001-300-4210-3341	R9601951	05/06/96	12.00
001-300-4240-3792	R9601951	05/06/96	4.00

Fees:	154.50	Total Credits:	.00
Adjustments:	.00	Total Payments:	154.50
Total Fees:	154.50	Balance Due:	.00

FORMS MUST BE INSPECTED PRIOR TO CONCRETE POUR.
CALL 748-4614 OR 748-4518 FOR INSPECTION.

NOTE: ALL CONSTRUCTION WITHIN THE PUBLIC RIGHT OF WAY MUST BE SHORED WITH FLASHERS FOR NIGHT TIME PROTECTION.
Contractor's "NAME AND DATE" to be impressed in all concrete work.

THIS IS TO CERTIFY THAT THE ABOVE WORK HAS BEEN COMPLETED TO MY SATISFACTION AND APPROVAL.

DATE _____

_____
INSPECTOR

CALL 748-4614 OR 748-4519 FOR INSPECTION FOR FORMS AND AFTER COMPLETION. INSPECTION MUST BE MADE BEFORE DEPOSIT CAN BE REDUCED OR REFUND. REFUNDS TAKE 3 WEEKS AFTER FINAL INSPECTION.

APPENDIX B

HORIZON ENVIRONMENTAL, INC.

FIELD METHODS AND PROCEDURES

The following section describes field procedures that will be utilized by Horizon Environmental Inc. (Horizon) personnel in performance of the tasks involved with this project.

1.0 HEALTH AND SAFETY PLAN

Field work performed by Horizon and subcontractors at the site will be conducted according to guidelines established in a Site Health and Safety Plan (SHSP). The SHSP is a document that describes the hazards that may be encountered in the field and specifies protective equipment, work procedures, and emergency information. A copy of the SHSP will be at the site and available for reference by appropriate parties during work at the site.

2.0 LOCATING UNDERGROUND UTILITIES

Prior to commencement of work on site, the location of underground utilities will be researched with the assistance of Underground Service Alert (USA). USA will contact the owners of the various utilities in the vicinity of the site to have the utility owners mark the locations of their underground utilities. Work associated with the boring and monitoring well installation will be preceded by manual hand augering to a minimum depth of 5 feet below grade to avoid contact with underground utilities.

3.0 SOIL BORING AND SOIL SAMPLING PROTOCOL

Soil borings and soil sampling will be performed under the supervision of a Horizon geologist. The soil borings will be advanced using a truck-mounted, hollow-stem auger drilling rig.

To reduce the chances of cross-contamination between boreholes, downhole drilling equipment and sampling equipment will be steam-cleaned between borings. To reduce cross-contamination between samples, the split-barrel sampler will be washed in a soap solution and double-rinsed between each sampling event.

Soil sampling will be conducted in accordance with ASTM 1586-84. Using this procedure, a split-barrel sampler (California-type sampler) lined with brass sample tubes is driven into the soil at approximately 5-foot intervals by a 140-pound weight falling 30 inches The number of blow counts required to advance the sample 18 inches will be recorded at each sample interval

Upon recovery, a portion of the soil sample will be placed in a plastic bag and sealed for later screening with an hNu type organic vapor meter (OVM) Another portion of the soil

sample will be used for classification and description. One of the samples will be sealed in the brass tube and stored at approximately 4□C for transport to the laboratory. After the soil sample is placed in the plastic bag, it will be allowed to warm, inducing volatilization of petroleum hydrocarbon vapors. The headspace vapors will be screened with the OVM. The highest observed reading will be recorded on the boring logs.

Each sample container submitted for analysis will have a label affixed to identify the job number, sample date, time of sample collection, and a sample number unique to that sample. Samples will be analyzed by a California-certified laboratory

A chain-of-custody form will be used to record possession of the sample from time of collection to its arrival at the laboratory. When the samples will be shipped, the geologist or technician with custody relinquishes the samples by signing the chain-of-custody form and noting the time. The sample control officer at the laboratory will verify sample integrity and confirm that it was collected in the proper container, preserved correctly, and that there is an adequate volume for analysis.

APPENDIX C

Boring Number: MW-1

HORIZON ENVIRONMENTAL INC.

Job Number: 3002.11
Site Location: Winner Ford, Alameda, CA
Drilling Company: Mitchell Drilling Environmental
Drilled By: Scott & John
Date Drilled: 07/11/96
Logged By: D. Higgins

Drilling Method: 8-inch Hollow Stem Auger
Sampling Method: Split-Spoon Sampler
Total Depth: 25 Feet
Depth To Groundwater: 6.25 Feet

Depth In Feet	Sample Number	Blow Count	Inches Driven	Inches Recovered	PID Reading In PPM	Sampling Interval	Soil Description	USCS Classification	Graphic Representation	Well Construction	Comments
0							Asphalt (6") over base coarse (6").				
1							SILTY CLAY, orange brown, damp.				Casing Installation Data:
2											2-inch PVC
3											0.020-inch screen
4											
5	S-5	14 15 17	18	18	354		SILTY CLAY, gray brown, dense, some blue green staining of soil.	SM			
6											
7											
8											
9											
10	S-10	10 11 13	18	18	0.5		orange brown, medium dense.				
11											
12											
13											
14											
15	S-15	13 14 19	18	18	1.2		dense.				
16											
17											
18											
19											
20	S-20	18 50+	11	11	1.8		orange mottling with blue green staining, very dense.				
21											
22											
23											
24											
25	S-25	22 50+	11	11	0.9						
26							Total depth = 25 feet bgs.				
27											
28											
29											
30											

Boring Number: MW-2

HORIZON ENVIRONMENTAL INC.

Job Number: 3002.11
Site Location: Winner Ford, Alameda, CA
Drilling Company: Mitchell Drilling Environmental
Drilled By: Scott & John
Date Drilled: 07/11/96
Logged By: D. Higgins

Drilling Method: 8-inch Hollow Stem Auger
Sampling Method: Split-Spoon Sampler
Total Depth: 25 Feet
Depth To Groundwater: 14.2 Feet

Depth In Feet	Sample Number	Blow Count	Inches Driven	Inches Recovered	PID Reading In PPM	Sampling Interval	Soil Description	USCS Classification	Graphic Representation	Well Construction	Comments
0							Asphalt (6") over base coarse (6").				Casing Installation Data:
1											2-inch PVC
2							SILTY SAND, fine-grained.				0.020-inch screen
3											
4											
5	S-5	12 12 20	18	18	0.5		SILTY SAND, fine-grained, gray brown, dense, green gray staining on shoe sample.	SM			
6											
7											
8											
9											
10	S-10	8 10 11	12	12	2.6		blue green staining, medium dense.				
11											
12											
13											
14											
15	S-15	8 11 14	12	12	0.2						
16											
17											
18											
19											
20	S-20	16 50	12	12	0		very dense.				
21											
22											
23											
24											
25	S-25	23 50	12	12	0		Total depth = 25 feet bgs.				
26											
27											
28											
29											
30											

UNIFIED SOIL CLASSIFICATION SYSTEM

Major Division		Ltr.	Description
Coarse-Grained Soils	Gravel and Gravelly Soils	GW	Well-graded Gravels or Gravel-Sand mixtures, little or no fines.
		GP	Poorly-graded Gravels or Gravel-Sand mixtures, little or no fines.
		GM	Silty Gravels, Gravel-Sand-Silt mixtures.
		GC	Clayey Gravel, Gravel-Sand-Clay mixtures.
	Sand and Sandy Soils	SW	Well-graded Sand or Gravelly Sands, little or no fines.
		SP	Poorly-graded Sands or Gravelly Sands, little or no fines.
		SM	Silty Sands, Sand-Silt mixtures.
		SC	Clayey Sands, Sand-Clay mixtures.
Fine-Grained Soils	Silts and Clays LL<50	ML	Inorganic Silts and very fine Sands, rock flour, Silty or Clayey fine Sands, or Clayey Silts with slight plasticity.
		CL	Inorganic Clays of low to medium plasticity, Gravelly Clays, Sandy Clays, Silty Clays, Lean Clays.
		OL	Organic Silty and Organic Silt-Clays of low plasticity.
	Silts and Clays LL>50	MH	Inorganic Silts, micaceous or diatomaceous fine Sandy or Silty soils, elastic Silts.
		CH	Inorganic Clays of high plasticity, fat Clays.
		OH	Organic Clays of medium to high plasticity, organic Silts.
Highly Organic Soils		PT	Peat and other highly organic soils.

WELL CONSTRUCTION SYMBOLS

- Depth through which sampler is driven
- Relatively undisturbed sample
- No sample recovered
- Static water level observed in well/boring
- Initial water level observed in well/boring
- S-10 Sample number


Neat cement


Sand pack (Monterey Sand #3)


Bentonite


Blank PVC


Machine-slotted PVC

Note: Blows represent the number of blows of a 140-pound hammer falling 30 inches to drive the sampler through each 6 inches of an 18-inch penetration.

Dashed lines separating formations on the log represent approximate boundaries only. Actual boundaries may be gradual. Logs represent subsurface conditions at the boring location at the time of drilling only.

HORIZON ENVIRONMENTAL INC.

BORING LOG SYMBOL KEY

APPENDIX D

EXCELCHEM
ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9
Roseville, CA 95678
Phone#: (916) 773-3664 Fax#: (916) 773-4784

ANALYSIS REPORT

Attention:	Mr. Gary Barker	Date Sampled :	07-11-96
	Horizon Environmental	Date Received:	07-15-96
	5011 Golden Foothill Expressway, Ste. 7	TPHg Analyzed:	07-20-96
	El Dorado Hills, CA 95762	BTEX Analyzed:	07-20-96
Project:	3002.11	Matrix:	Soil

	Benzene PPM	Toluene PPM	Ethyl-benzene PPM	Total Xylenes PPM	TPHg PPM
Reporting Limit:	0.005	0.005	0.005	0.005	1.0
SAMPLE Laboratory Identification:					
S-MW2-5 S0796281	ND	ND	ND	ND	ND
S-MW2-10 S0796282	ND	ND	ND	ND	ND
S-B1-7 S0796287	ND	ND	ND	ND	ND
SP a,b,c,d S0796293	ND	ND	ND	ND	ND

ppm = Parts per million = mg/Kg = milligram per Kilogram
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

ANALYTICAL PROCEDURES

BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID)
TPHg--Total petroleum hydrocarbons as gasoline (low-to-medium boiling points) are measured by extraction using EPA Method 5030, followed by modified EPA Method 8015, which utilizes a GC equipped with an FID.

Laboratory Representative

07-24-96
Date Reported

EXCELCHEM
ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9
Roseville, CA 95678
Phone#: (916) 773-3664 Fax#: (916) 773-4784

ANALYSIS REPORT

Attention:	Mr. Gary Barker	Date Sampled :	07-11-96
	Horizon Environmental	Date Received:	07-15-96
	5011 Golden Foothill Expressway, Ste. 7	TPHg Analyzed:	07-20-96
	El Dorado Hills, CA 95762	BTEX Analyzed:	07-20-96
Project:	3002.11	Matrix:	Soil

	Benzene PPM	Toluene PPM	Ethyl-benzene PPM	Total Xylenes PPM	TPHg PPM
Reporting Limit:	0.025	0.025	0.025	0.025	5.0
SAMPLE Laboratory Identification:					
S-MW1-5 S0796288	0.050	0.217	0.152	0.903	22.2

ppm = Parts per million = mg/Kg = milligram per Kilogram
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

ANALYTICAL PROCEDURES

BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID)
TPHg--Total petroleum hydrocarbons as gasoline (low-to-medium boiling points) are measured by extraction using EPA Method 5030, followed by modified EPA Method 8015, which utilizes a GC equipped with an FID.

Laboratory Representative

07-24-96
Date Reported

EXCELCHEM
ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9
Roseville, CA 95678
Phone#: (916) 773-3664 Fax#: (916) 773-4784

ANALYSIS REPORT

Attention:	Mr. Gary Barker	Date Sampled :	07-11-96
	Horizon Environmental	Date Received:	07-15-96
	5011 Golden Foothill Expressway, Ste. 7	TPHg Analyzed:	07-22-96
	El Dorado Hills, CA 95762	BTEX Analyzed:	07-22-96
Project:	3002.11	Matrix:	Soil

	Benzene PPM	Toluene PPM	Ethyl-benzene PPM	Total Xylenes PPM	TPHg PPM
Reporting Limit:	0.005	0.005	0.005	0.005	1.0
SAMPLE Laboratory Identification:					
S-B1-5 S0796286	ND	ND	ND	ND	ND

ppm = Parts per million = mg/Kg = milligram per Kilogram
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

ANALYTICAL PROCEDURES

BTEX– Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID)
TPHg–Total petroleum hydrocarbons as gasoline (low-to-medium boiling points) are measured by extraction using EPA Method 5030, followed by modified EPA Method 8015, which utilizes a GC equipped with an FID.

Laboratory Representative

07-24-96
Date Reported

EXCELCHEM
ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9
Roseville, CA 95678
Phone#: (916) 773-3664 Fax#: (916) 773-4784

ANALYSIS REPORT

Attention:	Mr. Gary Barker Horizon Environmental 5011 Golden Foothill Expressway, Ste. 7 El Dorado Hills, CA 95762	Date Sampled : Date Received: MTBE Analyzed:	07-11-96 07-15-96 07-22-96
Project :	3002.11	Matrix:	Soil

	MTBE PPM
Reporting Limit:	0.005
SAMPLE Laboratory Identification:	
S-B1-5 S0796286	ND
S-B1-7 S0796287	ND

ppm= Parts per million = mg/Kg= milligrams per Kilogram
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

ANALYTICAL PROCEDURES

MTBE-- Methyl tert-Butyl Ether is measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).

Laboratory Representative

07-24-96
Date Reported

EXCELCHEM
ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9
Roseville, CA 95678
Phone#: (916) 773-3664 Fax#: (916) 773-4784

ANALYSIS REPORT

Attention:	Mr. Gary Barker Horizon Environmental 5011 Golden Foothill Expressway, Ste. 7 El Dorado Hills, CA 95762	Date Sampled : Date Received: MTBE Analyzed:	07-11-96 07-15-96 07-22-96
Project :	3002.11	Matrix:	Soil

	MTBE PPM
Reporting Limit:	0.025
SAMPLE Laboratory Identification:	
S-MW1-5 S0796288	0.640

ppm= Parts per million = mg/Kg= milligrams per Kilogram
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

ANALYTICAL PROCEDURES

MTBE– Methyl tert-Butyl Ether is measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).

Laboratory Representative

07-24-96
Date Reported

EXCELCHEM
ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9
Roseville, CA 95678
Phone#: (916) 773-3664 Fax#: (916) 773-4784

ANALYSIS REPORT

Attention:	Mr. Gary Barker	Date Sampled :	07-11-96
	Horizon Environmental	Date Received:	07-15-96
	5011 Golden Foothill Expressway, Ste. 7	TOG Analyzed:	07-19-96
	El Dorado Hills, CA 95762	Matrix:	Soil
Project:	3002.11		

	TOG PPM
Reporting Limit:	50
SAMPLE Laboratory Identification:	
S-MW2-5 S0796281	114
S-MW2-10 S0796282	92
SP a.b.c,d S0796293	790

ppm = parts per million = mg/kg = milligrams per kilogram
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

ANALYTICAL PROCEDURES

TOG-- Total oil and grease is measured by Standard Method 5520B. 18th Edition.

Laboratory Representative

07-24-96
Date Reported

EXCELCHEM
ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9
Roseville, CA 95678
Phone#: (916) 773-3664 Fax#: (916) 773-4784

QA/QC REPORT

Attention:	Mr. Gary Barker Horizon Environmental 5011 Golden Foothill Expressway, Ste. 7 El Dorado Hills, CA 95762	Date Analyzed : Matrix:	07-23-96 Soil
Project:	3002.11		

	MTBE PPM
Reporting Limit:	0.005
QA/QC PARAMETER	
Matrix Blank	ND
PERCENT RECOVERIES	
Matrix Spike	97%
Matrix Spike Duplicate	92%

ppm = parts per million = mg/Kg = milligram per kilogram
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

All surrogate recoveries were within 30% of target values.
Spikes & Spike Duplicates were each spiked with 250 ng MTBE standard.

ANALYTICAL PROCEDURES

MTBE-- Methyl tert-Butyl Ether is measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).

Laboratory Representative

07-26-96
Date Reported

EXCELCHEM
ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9
Roseville, CA 95678
Phone#: (916) 773-3664 Fax#: (916) 773-4784

QA/QC REPORT

Attention: Mr. Gary Barker
Horizon Environmental
5011 Golden Foothill Expressway, Ste. 7
El Dorado Hills, CA 95762

BTEX Analyzed : 07-20-96
Matrix: Soil

Project: 3002.11

	Benzene PPM	Toluene PPM	Ethyl-benzene PPM	Total Xylenes PPM
Reporting Limit:	0.005	0.005	0.005	0.005
QA/QC PARAMETER				
Matrix Blank	ND	ND	ND	ND
PERCENT RECOVERIES				
Matrix Spike	89%	86%	89%	90%
Matrix Spike Duplicate	93%	91%	94%	95%

ppm = parts per million = mg/Kg = milligram per kilogram
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

All surrogate recoveries were within 30% of target values.
Spikes & Spike Duplicates were each spiked with 250 ng BTEX standard.

ANALYTICAL PROCEDURES

BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 8020 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).

Laboratory Representative

07-26-96
Date Reported

EXCELCHEM
ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9
Roseville, CA 95678
Phone#: (916) 773-3664 Fax#: (916) 773-4784

QA/QC REPORT

Attention:	Mr. Gary Barker Horizon Environmental 5011 Golden Foothill Expressway, Ste. 7 El Dorado Hills, CA 95762	TOG Analyzed : Matrix:	07-19-96 Soil
Project:	3002.11		

	TOG PPM
Reporting Limit:	50
QA/QC PARAMETER	
Matrix Blank	ND
PERCENT RECOVERIES	
Laboratory Control Spike	119%
Laboratory Control Spike Duplicate	91%

ppm = parts per million = mg/Kg = milligram per kilogram
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

Spikes & Spike Duplicates were each spiked with 50mg of motor oil.

ANALYTICAL PROCEDURES

TOG-- Total oil and grease is measured gravimetrically by Standard Method 5520B 18th Edition

Laboratory Representative

07-26-96
Date Reported

Excelchem
Environmental Labs

4946 Watt Avenue, #38
North Highlands, CA 95660
(916)334-8661

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: GARY BARKER
Phone #: (916) 939-2170
Company/Address: HARLAN ENVIRONMENTAL, 5081 GOLDEN FOOTHILL EXPRESSWAY, SUITE 4, EL DORADO HILLS, CA 95762
FAX #: (916) 939-2172
Project Number: 3002.11
P O #:
Project Name: WINNER FORD
Project Location: 1650 PARK STREET, ALAMEDA, CA
Sampler Signature:

ANALYSIS REQUEST 7960S2

TAT: RUSH SERVICE (12 hr) or (24 hr) | EXPEDITED SERVICE (48 hr) or (1 wk) | ✓ STANDARD SERVICE (2wk)

Sample ID	Sampling DATE	Sampling TIME	Container VOA	SLEEVE	1L GLASS	1L PLASTIC	Method Preserved HCl	HNO3	ICE	NONE	Matrix WATER	SOIL	BTEX (602/8020)	BTEX/TPH as Gasoline (602/8020/8015)	TPH as Diesel (8015)	TPH as Oil (8015)	Total Oil & Grease (5520 B/E,F)	Total Oil & Grease IR (5520 B/E,F,C)	96 - Hour Fish Bioassay	EPA 601/8010	EPA 602/8020	EPA 615/8150	EPA 608/8080 - Pesticides	EPA 608/8080-PCBs	EPA 624/6240	EPA 625/8270	ORGANIC LEAD	Reactivity, Corrosivity, Ignitibility	W.E.T (✓)	TOTAL (✓)	CAM - 17 Metals	EPA - Priority Pollutant Metals	LEAD(7420/7421/239.2)	Cd, Cr, Pb, Zn, Ni	HOLD
S-MW2-5	7/11/96	3:50pm		1					✓			✓		✓			✓				S	0	7	9	6	2	8	1								
S-MW2-10		2:00pm		1					✓			✓		✓			✓				S	0	7	9	6	2	8	2								
S-MW2-15		2:10pm		1					✓			✓									S	0	7	9	6	2	8	3								✓
S-MW2-20		2:15pm		1					✓			✓									S	0	7	9	6	2	8	4								✓
S-MW2-25	↓	2:40pm		1					✓			✓									S	0	7	9	6	2	8	5								✓

Relinquished by	Date	Time	Received by	Remarks:
[signature]	7/12/96	12:12pm	[signature]	
Relinquished by	Date	Time	Received by:	
Relinquished by	Date	Time	Received by Laboratory:	Bill To:
	7/15/96	am	[signature]	

Excelchem
Environmental Labs

4946 Watt Avenue, #38
North Highlands, CA 95660
(916)334-8661

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: GARY BARKER	Phone #: (916) 939-2170
Company/Address: HARLOW ENVIRONMENTAL, 5041 GOLDEN FOOTHILL PARKWAY, SUITE 7 CA ROSEVILLE, CA 95762	FAX #: (916) 939-2172
Project Number: 3002.11	P.O.#:
Project Name: WINNER FARM	
Project Location: 1650 PARK STREET ALAMEDA, CA	Sampler Signature:

ANALYSIS REQUEST 796052

TAT

Sample ID	Sampling DATE	Sampling TIME	Container VOA	Container SLEEVE	Container 1L GLASS	Container 1L PLASTIC	Method Preserved HCl	Method Preserved HNO3	Method Preserved ICE	Method Preserved NONE	Matrix WATER	Matrix SOIL	BTEX (602/8020)	BTEX/TPH as Gasoline (602/8020/8015)	TPH as Diesel (8015)	TPH as Oil (8015)	Total Oil & Grease (5520 B/E,F)	Total Oil & Grease IR (5520 B/E,F,C)	96 - Hour Fish Bioassay	EPA 601/8010	EPA 602/8020	EPA 615/8150	EPA 608/8080 - Pesticides	EPA 608/8080-PCBs	EPA 624/8240	EPA 625/8270	ORGANIC LEAD	Reactivity, Corrosivity, Ignitibility	W.E.T (Y)	TOTAL (Y)	CAM - 17 Metals	EPA - Priority Pollutant Metals	LEAD(7420/7421/239.2)	Cd, Cr, Pb, Zn, Ni	HOLD	RUSH SERVICE (12 hr) or (24 hr)	EXPEDITED SERVICE (48 hr) or (1 wk)	STANDARD SERVICE (2wk)
S-B1-5	7/11/96	11:45 AM		1					✓			✓		X							5	0	7	9	6	2	8	6											X
S-B1-7		12:30 PM		1					✓			✓		X							5	0	7	9	6	2	8	7											X
S-MW1-5		11:55 AM		1					✓			✓		X							5	0	7	9	6	2	8	8											X
S-MW1-10		12:05 PM		1					✓			✓									5	0	7	9	6	2	8	9							X				
S-MW1-15		12:10 PM		1					✓			✓									5	0	7	9	6	2	9	0							X				
S-MW1-20		12:15 PM		1					✓			✓									5	0	7	9	6	2	9	1							X				
S-MW1-25	↓	12:25 PM		1					✓			✓									5	0	7	9	6	2	9	2							X				
SPa,b,c,d	7/11/96	12:45 PM		4					✓			✓		X			X				5	0	7	9	6	2	9	3											X

	Date	Time		
Relinquished by:	7/11/96	12:22 PM	Received by:	Remarks: COMPOSITE SAMPLES SPa,b,c,d AT THE LAB BEFORE ANALYSIS
Relinquished by			Received by	* Add MTBE (8020) on S-B1-5, S-B1-7, S-MW1-5.
Relinquished by	7/11/96		Received by Laboratory:	Bill To: As per G. Barker's request. 7-19-96 pe

APPENDIX E

Excelchem
Environmental Labs

4946 Watt Avenue, #38
North Highlands, CA 95660
(916) ~~334-8661~~ 773-3664

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Gary Barker
Phone #: 916-939-2170
Company/Address: Horizon #7, 5011 Golden Foothill El Dorado Hills 95762
FAX #: 916-939-2172
Project Number: 3002.11
P O #:
Project Name: Winner Ford
Project Location: Park St. Alameda, CA
Sampler Signature: Nathan Graber

796044

Sample ID	Sampling DATE	Sampling TIME	Container VOA	SLEEVE	1L GLASS	1L PLASTIC	Method Preserved HCl	HNO3	ICE	NONE	Matrix WATER	SOIL	BTEX (602/8020)	BTEX/TPH as Gasoline (602/8020/8015)	TPH as Diesel (8015)	TPH as Oil (8015)	Total Oil & Grease (5520 B/E,F)	Total Oil & Grease IR (5520 B/E,F,C)	96 - Hour Fish Bioassay	EPA 601/8010	EPA 602/8020	EPA 615/8150	EPA 608/8080 - Pesticides	EPA 608/8080-PCBs	EPA 624/8240	EPA 625/8270	ORGANIC LEAD	Reactivity, Corrosivity, Ignitibility	CAM - 17 Metals	EPA - Priority Pollutant Metals	LEAD(7420/7421/239.2)	Cd, Cr, Pb, Zn, Ni	MTBE 8020	W.E.T. (✓)	TOTAL (✓)	RUSH SERVICE (12 hr) or (24 hr)	EXPEDITED SERVICE (48 hr) or (1 wk)	STANDARD SERVICE (2wk)
W-0716-MW1	7-16-96	7:30A	2				✓				✓			✓									W07964						40				✓				✓
W-0716-MW2	7-16-96	9:25A	2				✓				✓							✓					W07964	4														

Relinquished by:	Date	Time	Received by:
Nathan Graber	7-17	96	Gary Barker
Gary Barker	7-19-96		Randy Reed

Received by Laboratory:

Remarks: TOG canceled Not enough sample was provided.

Bill To: Horizon Environmental 5011 Golden Foothill # 7 El Dorado Hills, CA 95762

EXCELCHEM
ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9
Roseville, CA 95678
Phone#: (916) 773-3664 Fax#: (916) 773-4784

ANALYSIS REPORT

Attention:	Mr. Gary Barker	Date Sampled :	07-16-96
	Horizon Environmental	Date Received:	07-19-96
	5011 Golden Foothill Expressway, Ste. 7	MTBE Analyzed:	07-24,25-96
	El Dorado Hills, CA 95762	BTEX Analyzed:	07-24,25-96
		TPHg Analyzed:	07-24,25-96
Project:	3002.11	Matrix:	Water

	MTBE PPB	Benzene PPB	Toluene PPB	Ethyl-benzene PPB	Total Xylenes PPB	TPHg PPB
Reporting Limit:	10.0	10.0	0.5	0.5	50	50
SAMPLE Laboratory Identification:						
W-0716-MW1 W0796440	267	62.8	34.3	5.75	32.1	222

PPB= Parts per billion = ug/L = micrograms per liter
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

ANALYTICAL PROCEDURES

BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are analyzed by using EPA Method 602 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).
TPHg--Total petroleum hydrocarbons as gasoline (low-to-medium boiling points) are analyzed by using modified EPA Method 8015, which utilizes a GC equipped with an FID.
MTBE (Methyl Tert-Butyl Ether)--MTBE is analyzed by EPA Method 602 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).

Laboratory Representative

07-29-96
Date Reported

EXCELCHEM
ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9
Roseville, CA 95678
Phone#: (916) 773-3664 Fax#: (916) 773-4784

ANALYSIS REPORT

Attention:	Mr. Gary Barker	Date Sampled :	07-16-96
	Horizon Environmental	Date Received:	07-19-96
	5011 Golden Foothill Expressway, Ste. 7	MTBE Analyzed:	07-24-96
	El Dorado Hills, CA 95762	BTEX Analyzed:	07-24-96
		TPHg Analyzed:	07-24-96
Project:	3002.11	Matrix:	Water

	MTBE PPB	Benzene PPB	Toluene PPB	Ethyl-benzene PPB	Total Xylenes PPB	TPHg PPB
Reporting Limit:	0.5	0.5	0.5	0.5	50	50
SAMPLE Laboratory Identification:						
W-0716-MW2 W0796441	NR	1.10	ND	ND	1.05	ND

PPB= Parts per billion = ug/L = micrograms per liter
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

ANALYTICAL PROCEDURES

BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are analyzed by using EPA Method 602 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).
TPHg--Total petroleum hydrocarbons as gasoline (low-to-medium boiling points) are analyzed by using modified EPA Method 8015, which utilizes a GC equipped with an FID.
MTBE (Methyl Tert-Butyl Ether)--MTBE is analyzed by EPA Method 602 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).

Laboratory Representative

07-29-96
Date Reported

EXCELCHEM
ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9
Roseville, CA 95678
Phone#: (916) 773-3664 Fax#: (916) 773-4784

QA/QC REPORT

Attention: Mr. Gary Barker
Horizon Environmental
5011 Golden Foothill Expressway, Ste. 7
El Dorado Hills, CA 95762

Date Analyzed : 07-25-96
Matrix: Water

Project: 3002.11

	MTBE PPB	Benzene PPB	Toluene PPB	Ethyl-benzene PPB	Total Xylenes PPB
Reporting Limit:	0.5	0.5	0.5	0.5	0.5
QA/QC PARAMETER					
Matrix Blank	ND	ND	ND	ND	ND
PERCENT RECOVERIES					
Matrix Spike	102%	98%	99%	100%	101%
Matrix Spike Duplicate	107%	98%	100%	101%	102%

ppb = parts per billion = ug/L = microgram per liter
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

All surrogate recoveries were within 30% of target values.
Spikes & Spike Duplicates were each spiked with 250 ng BTEX standard.
Spikes & Spike Duplicates were each spiked with 250 ng MTBE standard.

ANALYTICAL PROCEDURES

BTEX-- Benzene, toluene, ethylbenzene, and total xylene isomers (BTEX) are measured by extraction using EPA Method 5030 followed by analysis using EPA Method 602 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID).
MTBE (Methyl Tert-Butyl Ether)--MTBE is analyzed by EPA Method 602 which utilizes a gas chromatograph (GC) equipped with a photoionization detector (PID)

Laboratory Representative

07-29-96
Date Reported

Excelchem
Environmental Labs

EXCELCHEM ENVIRO. LABS
500 Giuseppe Court, #9
Roseville, CA
95678

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Gary Barker, Harrison
Phone #: 916-939-2170
Company/Address: 5011 Golden Foothill Pky #7
FAX #: 916-939-2172
Project Number: 3002.11
P.O.#:
Project Name: Winner Ford
Project Location: Alameda
Sampler Signature: Nathan Graham

ANALYSIS REQUEST 796090

TAT

Sample ID	Sampling DATE	Sampling TIME	Container VOA	Container SLEEVE	Container 1L GLASS	Container 1L PLASTIC	Method Preserved HCl	Method Preserved HNO_3	Method Preserved ICE	Method Preserved NONE	Matrix WATER	Matrix SOIL	BTEX (602/8020)	BTEX/TPH as Gasoline (602/8020/8015)	TPH as Diesel (8015)	TPH as Oil (8015)	Total Oil & Grease (5520 B/E,F)	Total Oil & Grease IR (5520 B/E,F,C)	96 - Hour Fish Bioassay	EPA 601/8010	EPA 602/8020	EPA 615/8150	EPA 608/8080 - Pesticides	EPA 608/8080-PCBs	EPA 624/8240	EPA 625/8270	ORGANIC LEAD	Reactivity, Corrosivity, Ignitibility	CAM - 17 Metals	EPA - Priority Pollutant Metals	LEAD(7420,7421,239.2)	Cd Cr, Pb Zn Ni	WET (Y)	TOTAL (Y)	RUSH SERVICE (12 hr) or (24 hr)	EXPEDITED SERVICE (48 hr) or (1 wk)	STANDARD SERVICE (2wk)
W-0729-MW-2	7-29-96	1:50			X					X	X						X																				X

Relinquished by	Date	Time	Received by:	Remarks:
Nathan Graham	7-30-96	9:05		
Relinquished by	Date	Time	Received by:	
Relinquished by	Date	Time	Received by Laboratory:	Bill To:
	8:48	7/31/96	Nancy Reece	

EXCELCHEM
ENVIRONMENTAL LABS

500 Giuseppe Court, Suite 9
Roseville, CA 95678
Phone#: (916) 773-3664 Fax#: (916) 773-4784

ANALYSIS REPORT

Attention:	Mr. Gary Barker	Date Sampled:	07-29-96
	Horizon Environmental	Date Received:	07-31-96
	5011 Golden Foothill Expressway, Ste. 7	Date Analyzed :	08-13-96
	El Dorado Hills, CA 95762	Matrix:	Water

Project: 3002.11

	TOG
	PPM
Reporting Limit:	10
SAMPLE Laboratory Identification:	
W-0729-MW-2 W0796734	ND

ppm = parts per million = mg/L = milligrams per Liter.
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

ANALYTICAL PROCEDURES

TOG-- Total oil and grease is measured by Standard Method 5520B, 18th Edition.

Laboratory Representative

08-13-96
Date Reported

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ENVIRONMENTAL LABS

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Roseville, CA 95678
Phone#: (916) 773-3664 Fax#: (916) 773-4784

QA/QC REPORT

Attention:	Mr. Gary Barker Horizon Environmental 5011 Golden Foothill Expressway, Ste. 7 El Dorado Hills, CA 95762	TOG Analyzed : Matrix:	08-13-96 Water
Project:	3002.11		

	TOG PPM
Reporting Limit:	10
QA/QC PARAMETER	
Matrix Blank	ND
PERCENT RECOVERIES	
Laboratory Control Spike	90%
Laboratory Control Spike Duplicate	114%

ppm = parts per million = mg/Kg = milligram per kilogram
ND = Not detected. Compound(s) may be present at concentrations below the reporting limit.

Spikes & Spike Duplicates were each spiked with 50mg of motor oil.

ANALYTICAL PROCEDURES

TOG-- Total oil and grease is measured gravimetrically by Standard Method 5520B 18th Edition

Laboratory Representative

08-13-96
Date Reported