



CROSBY & OVERTON, INC.

8430 AMELIA STREET • OAKLAND, CA 94621

(800) 821-0424 • (415) 633-0336
FAX (415) 633-0759

Submitted 10/3/92

**SOIL EXCAVATION AND MONITORING WELL INSTALLATIONS
22117 MEEKLAND AVENUE
HAYWARD, CALIFORNIA**

Prepared For: HARRY BUETTNER / VINCE HOYT
BUETTNER & HOYT TRACTOR COMPANY

Prepared By: CROSBY & OVERTON, INC.
8430 AMELIA STREET
OAKLAND, CA 94621

Written By:

MATTHEW H. WALRAVEN
STAFF GEOLOGIST

Reviewed By:

DAVE SADOFF
PROJECT ENVIRONMENTAL
GEOLOGIST

Approved By:

ROGER NIELSON
CALIFORNIA REGISTERED
GEOLOGIST #1801



C&O Job # BA 8205-S
May 21, 1991

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CROSBY & OVERTON, INC.

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May 22, 1991

Harry Buettner
Hoyt & Buettner Tractor Co.
22117 Meekland Ave.
Hayward CA 94541

RE: Monitoring well installation at Hoyt & Buettner Tractor Co.
22117 Meekland Ave., Hayward, CA.

Dear Mr. Buettner:

Crosby & Overton, Inc. (C&O) is pleased to submit this report regarding the installation of three groundwater monitoring wells (MW-1, MW-2, MW-3) at 22117 Meekland Ave., Hayward, California (Figure 1).

BACKGROUND

At this site, a waste oil underground storage tank was removed, the excavation pit was backfilled and the area was re-paved with concrete (Figure 2). Due to the discovery that samples from the backfill material were hydrocarbon impacted; re-excavation of the material and further excavation of adjacent impacted soils, was required.

Crosby & Overton, Inc. was contracted by Hoyt & Buettner Tractor Company to: re-excavate; over-excavate, as necessary; conduct clearance sidewall sampling; biodetoxify the excavated soil; and to install, develop, and sample three groundwater monitoring wells at the site. (1)

Groundwater monitoring wells were required by the Alameda County Health Care Services Agency (ACHCSA), the lead agency for this site, to evaluate whether ground water had been impacted.

On February 21, 1991 C&O directed the proposed re-excavation and cleanup activities. The backfilled pit had been covered by a 6 to 12 inch thick concrete slab. A 20 by 30 foot section of the concrete was cut and removed to facilitate the over-excavation and extraction of backfill materials and impacted soils. The excavation activities generated approximately 250 cubic yards of soils and backfill materials. The impacted soil was spoiled and covered on-site with weighted Visqueen pending bioremediation.

(1) cf. Crosby & Overton, Inc. report "Monitoring Well Installation Proposal at 22117 Meekland Ave., Hayward, CA", March 4, 1990.

To determine the limits of the contaminated area, cut and pit face soils were field tested using an HNU photoionization detector (PID). Samples for laboratory analysis were taken from the walls and bottom of the excavation under the direction of Pamela Evans, ACHCSA. The samples were sent to Med-Tox Associates (a California State certified hazardous materials laboratory) for analysis, under chain-of-custody documentation (cf. Appendix D), and analyzed for total oil and grease (TOG), petroleum hydrocarbons as diesel (TPHd), and benzene, toluene, xylenes, and ethylbenzene (BTXE) [Method 5520 E,F; 3550 GCFID + BTXE]. Results of the analyses are listed in Table I.

SITE DESCRIPTION

The site is located approximately 65 feet above sea level on the East Bay Plain Area, Alameda County (Figure 2). The geologic setting in this area is a surficial (10-50 feet) Holocene alluvial-fan-type deposit (Qal), overlying an older (Pleistocene) alluvium which represents successive coalescing alluvial fan deposits (Qoa). The younger alluvium is a moderately permeable, unconsolidated, moderately sorted, sand and silt unit, with coarse sand and gravels becoming abundant toward the fan heads and in narrow canyons. The older alluvium is a permeable, heterogeneous mixture of poorly consolidated to unconsolidated clay, silt, sand, and gravel.

Groundwater in the site area is generally found between 35 and 40 feet below ground surface (BGS). The general groundwater gradient for this area is westward towards the bay with minor local variations.

The Hayward Fault is located approximately two miles to the west. Cf. Geohydrology and Groundwater-Quality Overview, East Bay Plain Area, Alameda County, Ca; 205 (J) Report; Alameda County Flood Control and Water Conservation District; June 1988.

MONITORING WELL CONSTRUCTION/SAMPLING

On March 21, 22, and 23, 1991 C&O utilized a subcontractor, Layne Environmental, to drill, install, and develop, three groundwater monitoring wells at 22117 Meekland Ave.

Initially a 16-inch diameter hole was cut through the six to twelve inch thick concrete slab. This was followed by drilling with ten inch diameter, continuous flight hollow stem augers (HSA) to a total depth (TD) of 53 feet below ground surface (BGS) for MW-1, 53.5 feet BGS for MW-2, and 51 feet BGS for MW-3. Samples were taken during the drilling operation from the bottom of each

borehole at each five foot depth interval. Each sample was logged both lithologically and with a photoionization detector (PID). The borehole was continuously cored from 23 feet BGS to 38 feet BGS in MW-1. Water was first encountered at approximately 36 feet BGS in each borehole.

Soil samples were obtained by using a California split-spoon sampler. The sampler held three (3), clean, six inch long by two inch diameter brass tubes. The sampler was inserted into the hollow stem auger (HSA) and pneumatically hammered into the undisturbed soil in the center of the borehole. The sampler was removed, opened and the middle tube was extracted. Immediately after extraction the tube ends were sealed with aluminum foil, Teflon end caps, and wrapped with duct tape to prevent the loss of any volatile compounds. All samples were labeled and packed on Blue Ice® for transportation to Med-Tox Associates, Inc. in Pleasant Hill. Chain of Custody documentation accompanied all samples to the laboratory (cf. Appendix D). Samples were analyzed for TOG and TPHd + BTXE. Results of the analyses are listed in Table II.

Upon completion of drilling and sampling, each borehole was converted to a monitoring well with the installation of four-inch diameter Schedule 40 , factory threaded and slotted, PVC casing. Each well was screened over a 20 foot interval (from total depth to approximately five feet above first water level) using 0.02 inch slotted PVC casing, the remaining casing to the surface was blank. A slot size of 0.020 inches was selected based on the knowledge that the predominant soil type in this area is gravely, silty clay.

The annular space around the 0.020 inch slotted sections of casing was staged into place with Lonestar #3 sand (LS #3) as filter pack. The filter pack for each well extends from the bottom of the borehole to at least one foot above the screened interval. Above the filter pack a two to three foot bentonite (Volclay) spacer was emplaced and hydrated.

From the top of the bentonite spacer to the surface, neat cement was pumped via tremie pipe into the remaining annular space. The well casing was fitted with a locking cap, and a round, ten inch Cristy box was cemented in place over the well and slightly above grade to prevent tampering and infiltration by surface runoff.

MW-1 was completed at 46 feet BGS, and screened from 46 feet to 26 feet BGS. Filter pack for MW-1 extended from 25 feet BGS to the bottom of the borehole at 53 feet BGS. Cf. Completion Log MW-1, pp. 1 & 2, Appendix B.

MW-2 was completed at 50.5 feet BGS, and screened from 50.5 feet to 30.5 feet BGS. Filter pack for MW-2 extended from 28.5 feet BGS to the bottom of the borehole at 53.5 feet BGS. Cf. Completion Log MW-2, pp. 1 & 2, Appendix B.

MW-3 was completed at 50.5 feet BGS, and screened from 50.5 feet to 30.5 feet BGS. Filter pack for MW-3 extended from 20 feet BGS to the bottom of the borehole at 53 feet BGS. Cf. Completion Log MW-3, pp. 1 & 2, Appendix B.

MONITORING WELL DEVELOPMENT

On April 5, after allowing 72 hours for the grout to set, the monitoring wells were developed by overpumping. The overpumping was continued until the discharge water was visually clear and the parameters of temperature (T), electrical conductivity (μ/cm), and pH had stabilized. Measurements of these parameters were made in approximately 30 minute intervals during the development pumping. The equivalent of six to eight well casing volumes (\approx 55 gallons) of water were pumped before the above conditions were met (cf. Well Production Data sheets, Appendix C).

The discharged effluent has been stored on site in 55-gallon, DOT-17H drums. The liquid will be disposed of in a manner consistent with the Regional Water Quality Control Board (RWQCB) and all other regulatory agency regulations and guidelines.

MONITORING WELL SAMPLING

After the wells had recovered at least 95% of their original volume following development, they were sampled. The samples were collected using new polyethylene bailers and nylon cord. The bailers were disposable, and therefore, never reused. Duplicate water samples were collected from each well. Each well sample was placed into three 40 ml VOA vials, with two additional samples collected in 950 ml amber glass bottles. The samples were labeled, placed on Blue Ice® in an ice chest, and sent to Med-Tox Associates under Chain of Custody documentation (cf. Appendix D). The samples were analyzed for TOG, TPHd + BTXE [Methods: 5520 C, F; 3510 GCFID; EPA 8020]. Results of the analyses may be found in Table III.

ANALYTIC RESULTS

The analytic results for soil samples indicated that sample S-4 from the north wall of the excavation at 20 feet BGS, yielded 30 parts per million (ppm) hydrocarbon oil and grease [5520 F] and 30

Table I. Analytic results for excavation samples.

MATRIX	SAMPLE	LOCATION	5520 F	TPHd	EHo
SOIL	S-1	W. WALL 10' BGS	ND	ND	ND
SOIL	S-2	W. WALL 20' BGS	ND	ND	ND
SOIL	S-3	N. WALL 10' BGS	ND	ND	ND
SOIL	S-4	N. WALL 20' BGS	30	ND	30
SOIL	S-5	E. WALL 10' BGS	ND	ND	ND
SOIL	S-6	E. WALL 20' BGS	ND	ND	ND
SOIL	S-7	CENTER BOTTOM	ND	ND	ND
SOIL	S-8	S. WALL 10' BGS	ND	ND	ND
SOIL	S-9	S. WALL 20' BGS	ND	ND	ND

All values are given in parts per million (ppm).

ND Not detected
 BGS Below ground surface
 5520 F ... Hydrocarbons as oil and grease
 TPHd Total petroleum hydrocarbons as diesel
 EHo Extractable hydrocarbons as oil

All analyses for benzene, toluene, xylenes, and ethylbenzene, yielded ND results.

ppm extractable hydrocarbons as oil [3550 GCFID]. All other samples from the excavation walls yielded non detectable (ND) results for all other analyses (cf. Table I).

The analytic results for borehole samples indicated that sample S-5 from MW-1 at 20 feet BGS, yielded 10 ppm hydrocarbon oil and grease [5520 F]. Sample S-8 from MW-1 at 38 feet BGS yielded 190 ppm hydrocarbon oil and grease [5520 F], 30 ppm extractable hydrocarbons as diesel, and 60 ppm extractable hydrocarbons as oil [3550 GCFID]. *at 20' BGS*

Sample S-9 from MW-2 at 5 feet BGS yielded 10 ppm hydrocarbon oil and grease [5520 F], and 20 ppm extractable hydrocarbons as oil [3550 GCFID].

Samples S-19 and S-21 from MW-3 at 15 feet BGS and 25 feet BGS respectively, each yielded 10 ppm hydrocarbon oil and grease [5520 F].

Table II. Analytic results for borehole samples.

MATRIX	SAMPLE	LOCATION	5520 F	TPHd	EHo
SOIL	S-1	BH-1 5' BGS	ND	ND	ND
SOIL	S-2	BH-1 10' BGS	ND	ND	ND
SOIL	S-3	BH-1 15' BGS	ND	ND	ND
SOIL	S-4	BH-1 20' BGS	ND	ND	ND
SOIL	S-5	BH-1 25' BGS	10	ND	ND
SOIL	S-6	BH-1 30' BGS	ND	ND	ND
SOIL	S-7	BH-1 35' BGS	ND	ND	ND
SOIL	S-8	BH-1 38' BGS	190	30	60
SOIL	S-9	BH-2 5' BGS	10	ND	20
SOIL	S-10	BH-2 10' BGS	ND	ND	ND
SOIL	S-11	BH-2 15' BGS	ND	ND	ND
SOIL	S-12	BH-2 20' BGS	ND	ND	ND
SOIL	S-13	BH-2 25' BGS	ND	ND	ND
SOIL	S-14	BH-2 30' BGS	ND	ND	ND
SOIL	S-15	BH-2 35' BGS	ND	ND	ND
SOIL	S-16	BH-2 40' BGS	ND	ND	ND
SOIL	S-17	BH-3 5' BGS	ND	ND	ND
SOIL	S-18	BH-3 10' BGS	ND	ND	ND
SOIL	S-19	BH-3 15' BGS	10	ND	ND
SOIL	S-20	BH-3 20' BGS	ND	ND	ND
SOIL	S-21	BH-3 25' BGS	10	ND	ND
SOIL	S-22	BH-3 30' BGS	ND	ND	ND
SOIL	S-23	BH-3 35' BGS	ND	ND	ND
SOIL	S-24	BH-3 38' BGS	ND	ND	ND

All values are given in parts per million (ppm).

ND Not detected
 BGS Below ground surface
 5520 F ... Hydrocarbons as oil and grease
 TPHd Total petroleum hydrocarbons as diesel
 EHo Extractable hydrocarbons as oil

All soil analyses yielded ND results for benzene, toluene, xylene, and ethylbenzene (BTXE).

All other samples from the monitoring well boreholes yielded non detectable (ND) results for all analyses (cf. Table II).

The results for the groundwater analyses are as follow (cf. Table III.):

- 200 ppb extractable hydrocarbons as oil from MW-2.
- No other contaminants were detected in the water samples.

Table III. Analytic results for monitoring well samples.

MATRIX	SAMPLE	5520 F	TPHd	EHo	B	T	X	E
WATER	MW-1	ND	ND	ND	ND	ND	ND	ND
WATER	MW-2	ND	ND	200	ND	ND	ND	ND
WATER	MW-3	ND	ND	ND	ND	ND	ND	ND

All values are given in parts per billion (ppb).

ND Not detected
 TPHd ... Total petroleum hydrocarbons as diesel
 EHo Extractable hydrocarbons as oil
 B Benzene
 T Toluene
 X Xylenes
 E Ethylbenzene

CONCLUSIONS

It has been noted that low level hydrocarbon as oil is present in MW-2. Crosby & Overton, Inc. recommends that these wells be sampled quarterly for at least one year in order to acquire data throughout a full hydrologic cycle.

REPORTAGE

Submission to the RWQCB and the Hayward Fire Department Hazardous Materials Unit should include a copy of this report (in its entirety) and a cover letter from the property owner.

The following addresses have been listed here for your convenience:

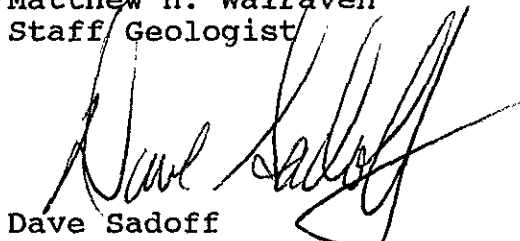
San Francisco Bay Regional Water Quality Control Board
1800 Harrison Street, Suite 700
Oakland, CA 94621
Attn: **Richard Hiatt**

Alameda County Health Care Services Agency
80 Swan Way, Rm. 200
Oakland, CA 94621
Attn: **Pamela J. Evans**

Respectfully submitted,



Matthew H. Walraven
Staff Geologist



Dave Sadoff
Project Environmental Geologist

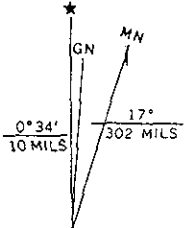


Roger Nielson
California Registered Geologist #1801

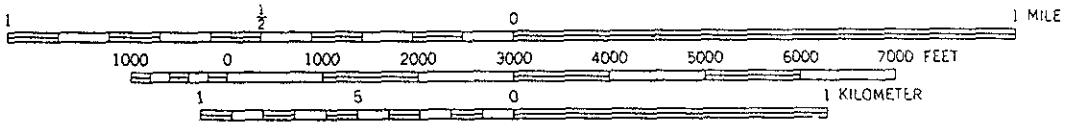
MW/mhw



SITE LOCATION:
 ← 22117 Meekland Ave.
 Hayward, CA



UTM GRID AND 1980 MAGNETIC NORTH
 DECLINATION AT CENTER OF SHEET



CONTOUR INTERVAL 20 FEET
 DOTTED LINES REPRESENT 5-FOOT CONTOURS
 NATIONAL GEODETIC VERTICAL DATUM OF 1929

CROSBY & OVERTON, INC.
 8430 AMELIA STREET • OAKLAND, CA 94621

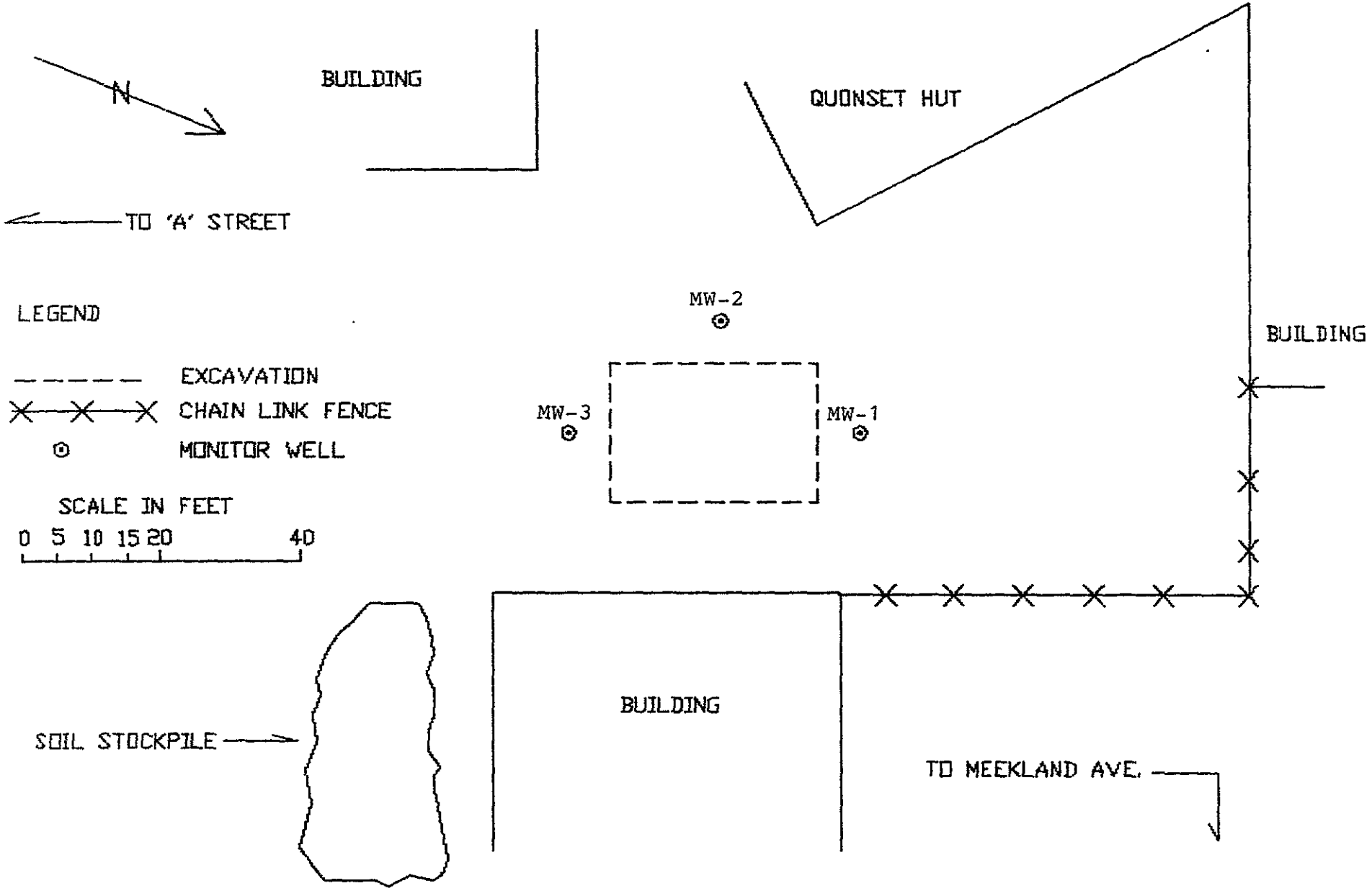
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FIGURE 1
 After USGS 15' Hayward CA quadrangle
 1959, rev. 1980.

DATE: 5-16-1991 JOB NUMBER: 8205-S

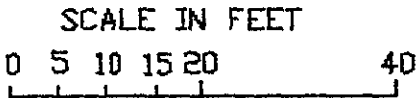
DRAWN BY: MHW





LEGEND

- EXCAVATION
- X-X-X CHAIN LINK FENCE
- ⊙ MONITOR WELL



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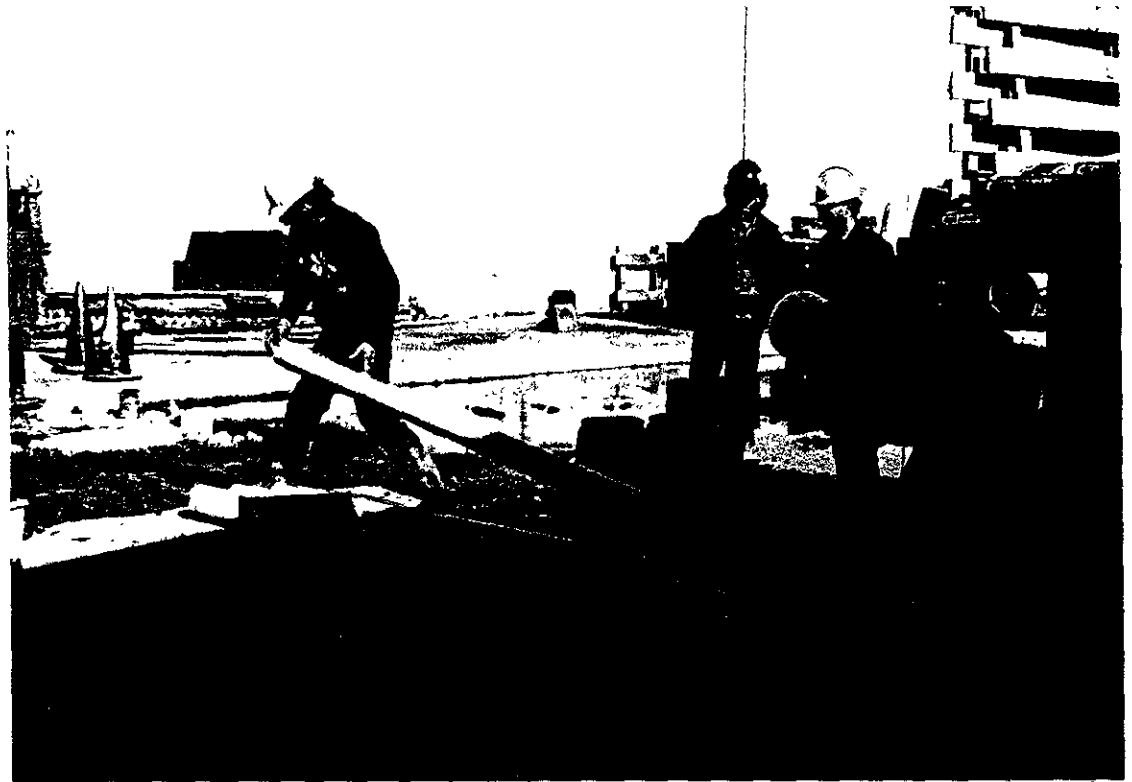
FIGURE 2
 SITE MAP

DATE: 5-16-1991 JOB NUMBER: 8205-S

DRAWN BY: M. Ayala



LEFT- Removal of pilot bit prior to sampling.
BELOW- Layout and assembly of well casing.



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PLATE A

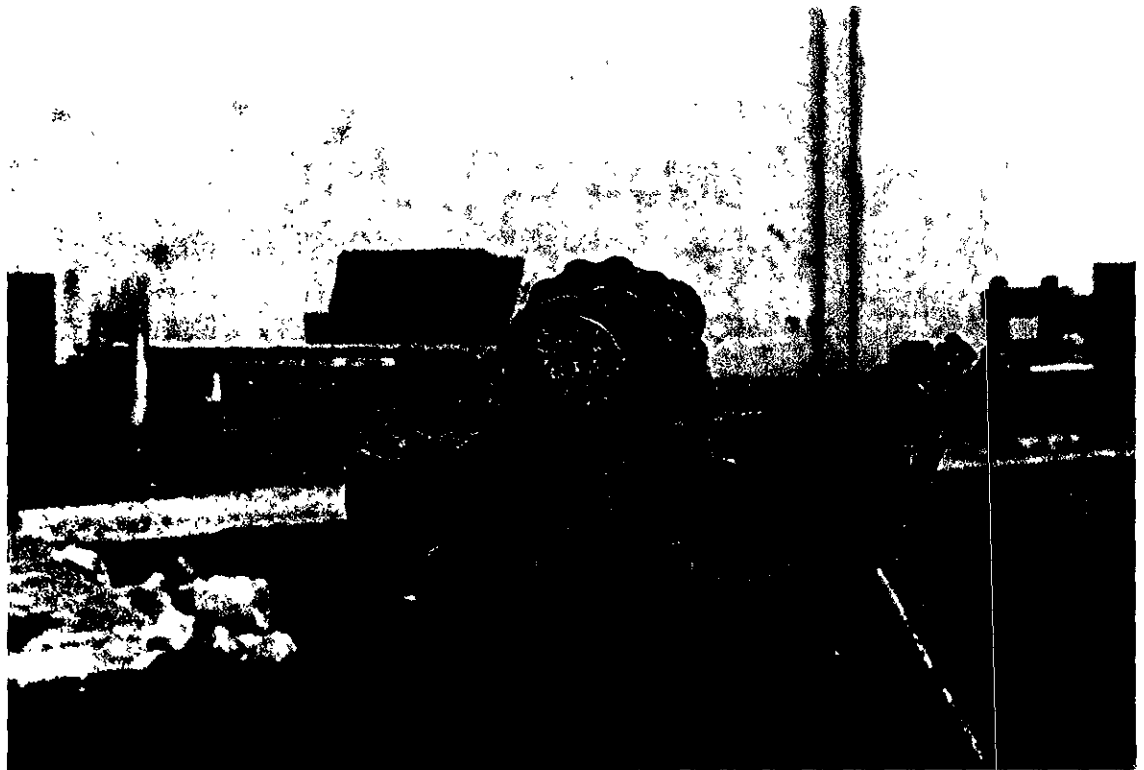
DATE: 5-16-1991 JOB NUMBER: 8205-S

DRAWN BY: MHW

ABOVE- Soil stockpiled prior to bioremediation.



BELOW- Sample from aquifer top. Note: large clast in a gravelly matrix with little or no fines.



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PLATE B

JOB NUMBER: 8205-S

DATE: 5-16-1991

DRAWN BY: MHW

BELOW- Lowering well casing down borehole.



ABOVE- Tremie piping
neat cement into annular
space around casing.
Christy box center foreground.



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PLATE C

DATE: 5-16-1991 JOB NUMBER: 8205-S

DRAWN BY: MHW

APPENDIX A

PERMIT APPLICATION

DUPLICATE
RETAIN THIS COPY

No. 252705

NOTICE OF INTENT

DEPARTMENT OF WATER RESOURCES:

MARCH 5, 19 91

On or about MARCH 20, 19 91, I plan to commence drilling deepening
reconditioning or destruction of a cable rotary or other HSA type

well, for GROUNDWATER MONITORING purposes. The work will be done for

V. HOYT, 11433 CULL CANYON RD., CASTRO VALLEY, CA
(Proposed use of well)
(Name of client and address)

Approximate location of well is 22117 MEERLAND AVE., 94552

HAYWARD, CA 94541

(Legal subdivision or by reference to some landmark)

, in ALAMEDA County.

LAYNE ENVIRONMENTAL Lic. No. 157-600469

4300 EUORA RD., PITTSBURG, CA
(Well driller)
(Address)

Need log forms

Need notice cards

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
INFORMATION ON NOTICE OF INTENT

LEGISLATION

The Notice of Intent form has been prepared by the Department of Water Resources in accordance with legislative direction given by Chapter 1088, Statutes of 1965, amended in 1967 as follows:

"13750 Every person who hereafter intends to dig, bore, or drill a water well, or who intends to deepen or re-perforate any such well, or to abandon or destroy a water well, shall file with the department a notice of intent to engage in such construction or repair prior to commencing such construction or repair; provided, that when such construction or repair must be accomplished immediately in order to prevent damage to persons or property due to the loss of an existing water supply, such notice shall be filed with the department as soon as possible thereafter, but in any event not more than five days after commencement of such construction or repair

"The report shall be made on forms furnished by the department and shall contain such information as the department may require, including but not limited to (a) description of the well site sufficiently exact to permit location and identification of the well, (b) proposed date of construction of well, (c) the use for which the water well is intended, (d) the work to be done and a description of type of construction, and (e) in event of late filing, the reasons therefor"

INSTRUCTIONS

Complete original and mail to Department of Water Resources district office in whose area the well was drilled. This is a preaddressed form and no postage stamp is necessary. Retain duplicate for your records. Should you drill wells in more than one area, preaddressed forms for these areas will be sent on request.



ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588 (415) 484-2600

GROUNDWATER PROTECTION ORDINANCE PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 22117 MEEKLAND HAYWARD, CA

PERMIT NUMBER 91127 LOCATION NUMBER

APPLICANT NAME VINCE HOYT ADDRESS 11433 CULL CANYON CASTRO VALLEY, CA PHONE (415) 581-8799 ZIP 94552

PERMIT CONDITIONS

Circled Permit Requirements Apply

APPLICANT NAME DAVE SADDOFF ADDRESS 8430 AMELIA ST OAKLAND, CA PHONE (415) 633-0336 ZIP 94621

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

PROPOSED WATER SUPPLY WELL USE Domestic, Industrial, Other, Municipal, Irrigation

DRILLING METHOD: Mud Rotary, Air Rotary, Auger, Other

DRILLER'S LICENSE NO. C57-600469

WELL PROJECTS Drill Hole Diameter 10 in., Casing Diameter 4 in., Surface Seal Depth >20 ft., Maximum Depth 60 ft., Number 3

GEOTECHNICAL PROJECTS Number of Borings, Hole Diameter, Maximum Depth

ESTIMATED STARTING DATE 3/20/91 ESTIMATED COMPLETION DATE 3/21/91

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

APPLICANT'S SIGNATURE Dave Saddoff DATE 3/5/91

- 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.

Approved Wyman Hong Date 6 Mar 91

No. 340609

Notice of Intent No. 252705
Local Permit No. or Date 3-5-91

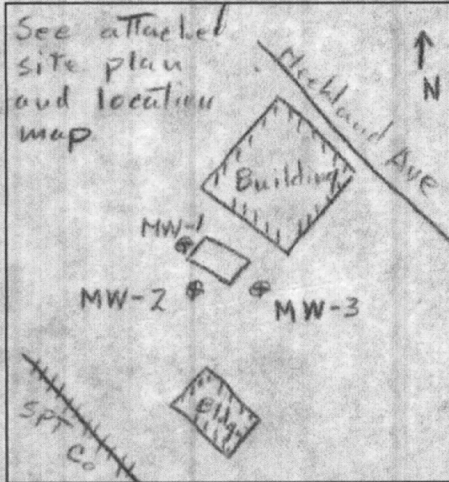
91 JUL -3 AM 11:18 State Well No. _____
Other Well No. _____

(1) OWNER: Name Vince Hoyt
Address 22117 Meekland Ave
City Hayward ZIP 94541

(12) WELL LOG: Total depth 53 ft. Completed depth 46 ft.
from ft. to ft. Formation (Describe by color, character, size or material)

(2) LOCATION OF WELL (See instructions):
County Alameda Owner's Well Number MW-1
Well address if different from above 22117 Meekland Ave
Township T 3 S Range _____ Section _____
Distance from cities, roads, railroads, fences, etc. SPT Co 80ft west, Meekland Ave 100 ft east, Poplar Ave 500 ft south.

See Attached completion log.



(3) TYPE OF WORK:
New Well Deepening
Reconstruction
Reconditioning
Horizontal Well
Destruction (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:
Domestic
Irrigation
Industrial
Test Well
Municipal
Other (Describe)

(5) EQUIPMENT:
Rotary Reverse
Cable Air
Other Bucket

(6) GRAVEL PACK:
Yes No Size 1/4" #3
Diameter of bore 10 1/2" dia
Packed from 25 to 53 ft.

(7) CASING INSTALLED:
Steel Plastic Concrete

(8) PERFORATIONS:
Type of perforation or size of screen

From ft.	To ft.	Dia. in.	Gage or Wall	From ft.	To ft.	Slot size
0	46	4	Sch 40	26	46	0.02in

(9) WELL SEAL:
Was surface sanitary seal provided? Yes No If yes, to depth 21.0 ft.
Were strata sealed against pollution? Yes No Interval 0-21.0 ft.
Method of sealing Neat cement via tremie

Work started 3-21 19 91 Completed 3-21 19 91

(10) WATER LEVELS:
Depth of first water, if known 37 ft.
Standing level after well completion 36 ft.

WELL DRILLER'S STATEMENT:

(11) WELL TESTS:
Was well test made? Yes No If yes, by whom? _____
Type of test Pump Bailer Air lift
Depth to water at start of test _____ ft. At end of test _____ ft.
Discharge _____ gal/min after _____ hours Water temperature 66.1
Chemical analysis made? Yes No If yes, by whom? Med-Tex Assoc
Was electric log made Yes No If yes, attach copy to this report

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Signed Robert J. Dawild (Well Driller)
NAME Layne Environmental Service, Inc
(Person, firm, or corporation) (Typed or printed)
Address 4200 Evora Rd
City Pittsburg Ca ZIP 94565
License No. 600469 Date of this report 5-15-91

APPENDIX B
COMPLETION LOG

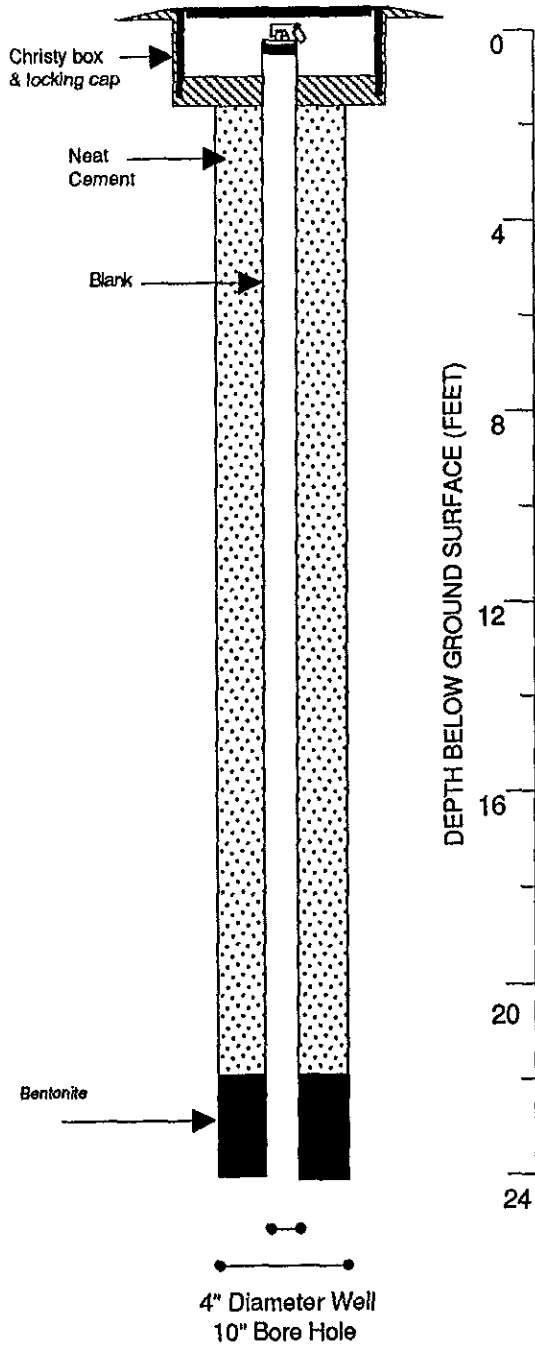
MONITOR WELL COMPLETION

SAMPLES

SOIL BORING GRAPHIC LOG

LITHOLOGIC DESCRIPTION

NO. TYPE BLOW



NO.	TYPE	BLOW	SOIL BORING GRAPHIC LOG	LITHOLOGIC DESCRIPTION
			8" of Concrete 6" of Aggregate Base	
			CL	Silty Clay
S-1	Grab	5 7 7		
			OL	Dark Brown- Black Clay; Medium Plasticity, No Odor
S-2	Grab	7 8 8		
			CL	Brown Clay; Medium Plasticity No Odor
S-3	Grab	5 5 7		
			CL	Heterogenous, interbedded very fine sands-silt-brown clays. Medium Plasticity when homogenized. No odor.
S-4	Grab	8 7 8		
			CL	Heterogenous, interbedded very fine sands-silt-brown clays. Medium Plasticity when homogenized. No odor.

Continues

Logged by: Dave Sadoff

Drilling Company: Layne Environmental

Well Head Completion: Christy box & locking cap

Drilling Method: CF HSA

Type of Sampler: CA Split Spoon

Dates Drilled: 3-21-91

Driller: Jim

TD (Total Depth): 53.0 ft.

EXPLANATION

- ☒ Water level during drilling
- ☒ Water level in completed well
- ▨ Location of recovered drill sample
- Location of sample sealed for chemical analysis
- ▣ Sieve sample
- ☒ Grab sample
- Contacts: Solid where certain
- Dotted where approximate
- - - Dashed where uncertain
- ▨ Hachured where gradational
- est K Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
- NR No recovery

CROSBY & OVERTON, INC.

WELL MW-1, PAGE 1

22117 Meekland Avenue, Hayward, CA
Owner, Hoyt/Buettner
Job No. 8205-S

REVISIONS

NO	DATE	DESCRIPTION	APP'D
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DATE 5/22/91

APP'D

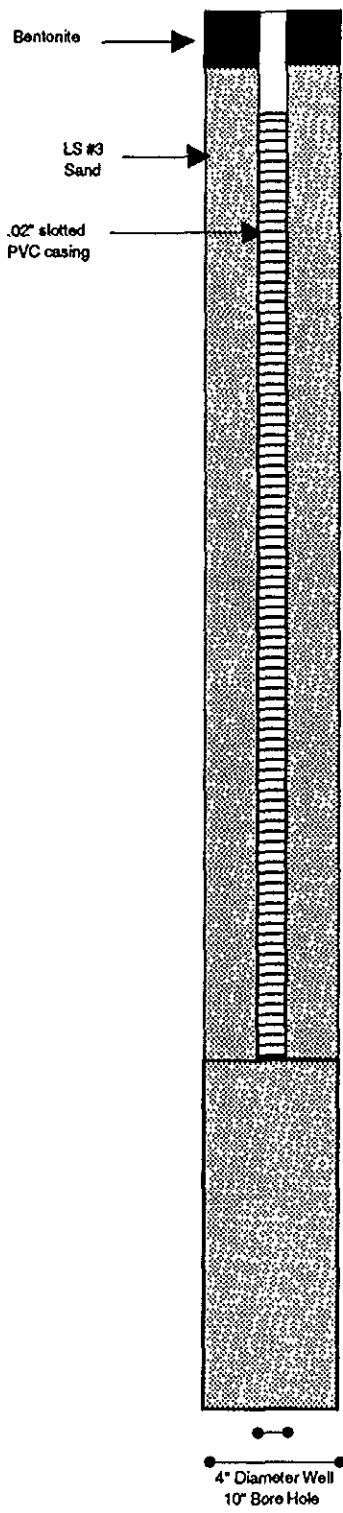
SCALE SHEET

SAMPLES

SOIL BORING GRAPHIC LOG

LITHOLOGIC DESCRIPTION

NO. TYPE BLOW



24
28
32
36
40
44
48
52

DEPTH BELOW GROUND SURFACE (FEET)

SAMPLES	SOIL BORING GRAPHIC LOG	LITHOLOGIC DESCRIPTION
NO.	TYPE	BLOW
S-5	Grab	14,17,16
		5
		6
		7
S-7	Grab	6
		7
		8
S-8	Grab	

CL
Heterogenous, interbedded very fine sands-silts-brown clays. Medium Plasticity when homogenized. No odor. Gravel lenses appear within this interval.

CL
Brown clayey, silty, very fine sand. In capillary fringe - (slightly moist).

GW
Well graded pebbles and sand. Predominantly well rounded low sphericity sandstone & quartzite pebbles to 2 cm. diameter. No calcite or hematite cementing noted; = silica cements. Sand is well graded fine sand. Q 40 F 20 L 40. Clay is nearly absent.

EXPLANATION

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- Contacts: Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational
- est K Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
- NR No recovery

CROSBY & OVERTON, INC.

WELL MW-1, PAGE 2

22117 Meekland Avenue, Hayward, CA
Owner, Hoyt/Buettner
Job No. 8205-S

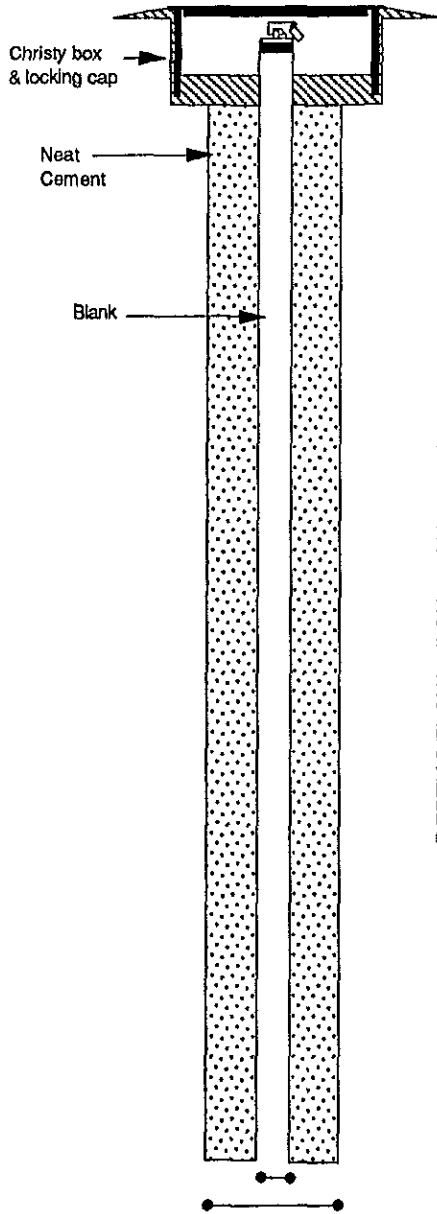
NO	DATE	DESCRIPTION	APP'D
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DATE 5/22/91
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SCALE SHEET

MONITOR WELL COMPLETION



4" diameter Well
10" diameter Borehole

SAMPLES **SOIL BORING GRAPHIC LOG** **LITHOLOGIC DESCRIPTION**

DEPTH BELOW GROUND SURFACE (FEET)	SAMPLES			SOIL BORING GRAPHIC LOG	LITHOLOGIC DESCRIPTION
	NO.	TYPE	BLOW		
0 - 1				Concrete	Concrete
1 - 2				Aggregate Base	Aggregate Base
2 - 3				OL	Dark brown clayey silt
3 - 4				CL	Light brown sandy clay
4 - 8	S-9	Grab	3 7 10	CL	Dark brown, very fine sandy clay. Medium plasticity. No odor.
8 - 14.5	S-10	Grab	6 7 11	CL	Dark brown, very fine sandy clay. Medium plasticity. No odor.
14.5 - 16.5				CL	Light brown sandy silty clay. Medium plasticity. No odor.
16.5 - 19.5	S-11	Grab	4 7 7	CL	Light brown sandy clay grading at 14.5 feet into well rounded poorly sorted gravelly (to 0.75 cm.), sandy clay. (Gravel lens from channel deposit). Medium plasticity, no odor.
19.5 - 24	S-12	Grab	3 4 7	CL to MH	Light brown silty clay with interstratified very fine sandy lenses. Medium to high plasticity. No odor.

Continues

Logged by: Matt Walraven Drilling Company: Layne Environmental Well Head Completion: Christy box & locking cap
 Date Drilled: 3-22-91 Drilling Method: CF HSA Type of Sampler: CA Split Spoon
 Driller: Jim TD (Total Depth): 53.5 ft.

EXPLANATION

- ☒ Water level during drilling
- ☒ Water level in completed well
- ☒ Location of recovered drill sample
- ☒ Location of sample sealed for chemical analysis
- ☒ Sieve sample
- ☒ Grab sample
- Contacts: Solid where certain
- Dotted where approximate
- - - Dashed where uncertain
- ////// Hachured where gradational
- est K Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
- NR No recovery

CROSBY & OVERTON, INC.

WELL MW-2, PAGE 1

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Owner, Hoyt/Buettner
Job No. 8205-S

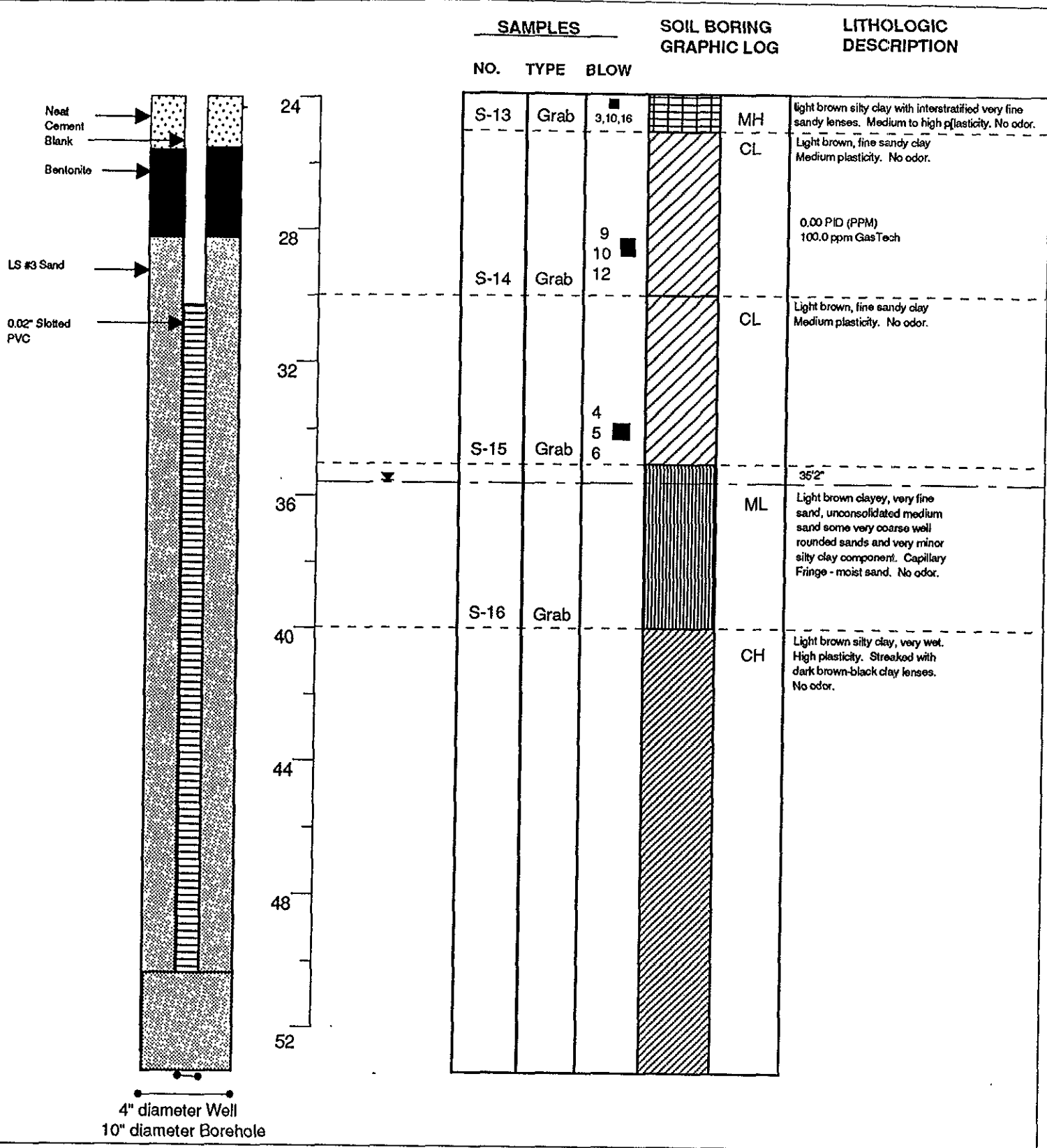
NO	DATE	DESCRIPTION	APP'D
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SCALE SHEET



EXPLANATION

	Water level during drilling		Contacts: Solid where certain
	Water level in completed well		Dotted where approximate
	Location of recovered drill sample		Dashed where uncertain
	Location of sample sealed for chemical analysis		Hachured where gradational
	Sieve sample	est K	Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary
	Grab sample	NR	No recovery

NO	DATE	DESCRIPTION	APP'D
REVISIONS			
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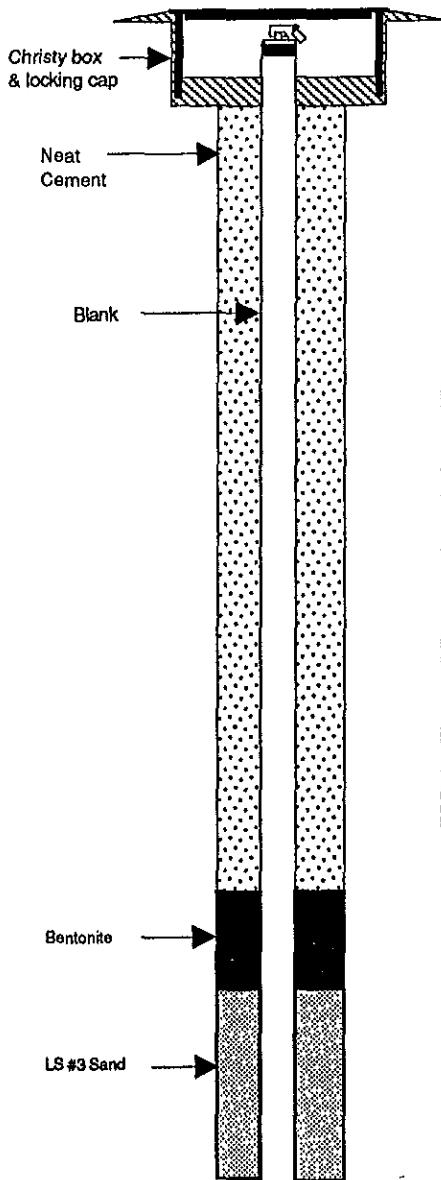
CROSBY & OVERTON, INC.

WELL MW-2, PAGE 2

22117 Meekland Avenue, Hayward, CA
Owner, Hoyt/Buettner
Job No. 8205-S

DATE 5/22/91	SCALE	SHEET
APP'D		

MONITOR WELL COMPLETION



4" diameter Well
10" diameter Borehole

SAMPLES SOIL BORING GRAPHIC LOG LITHOLOGIC DESCRIPTION

DEPTH BELOW GROUND SURFACE (FEET)	NO. TYPE BLOW			LITHOLOGIC DESCRIPTION
	NO.	TYPE	BLOW	
0 - 4	S-17	Grab	4 5 7	Concrete & Aggregate Base Turquoise clay & aggregate Strong hydrocarbon odor. Dark brown silty clay, 5% coarse to very coarse sand. Medium plasticity. No odor.
4 - 8	S-18	Grab	4 7 8	Brown fine sandy clay.
8 - 12	S-19	Grab	3 4 8	Light brown, very fine, sandy clay. Occasional very coarse lithic sand. Medium Plasticity. No odor
12 - 16				Light brown clayey poorly sorted sandy gravel. Well rounded, low sphericity, to 1.5 cm. diameter, chert, quartzite and lithic gravel. Low plasticity. No odor.
16 - 20	S-20	Grab	7 12 15	Light and dark streaked hetero- genous very fine sand and clay mixture, (sandy, silty, clay when homogenous), unconsolidated, fractured. Fractures contain precipitate (FeO(x)) - dissolution from chert or sandstone cements. Low -medium plasticity. No odor.

*125.0 ppm Gastech
and 1.0 ppm PID

Continues

Logged by: Matt Walraven Drilling Company: Layne Environmental Well Head Completion: Christy box & locking cap
 Dates Drilled: 3-22-91 Drilling Method: CF HSA Type of Sampler: CA Split Spoon
 3-23-91 Driller: Jim/Bob TD (Total Depth): 51.0 ft.

EXPLANATION

- ☒ Water level during drilling
- ☒ Water level in completed well
- ☒ Location of recovered drill sample
- ☒ Location of sample sealed for chemical analysis
- ☒ Sieve sample
- ☒ Grab sample
- Contacts:
Solid where certain
- Dotted where approximate
- - - Dashed where uncertain
- ▨ Hachured where gradational
- est K Estimated permeability (hydraulic conductivity)
1K = primary 2K = secondary
- NR No recovery

CROSBY & OVERTON, INC.

WELL MW-3, PAGE 1

22117 Meekland Avenue, Hayward, CA
Owner, Hoyt/Buettner
Job No. 8205-S

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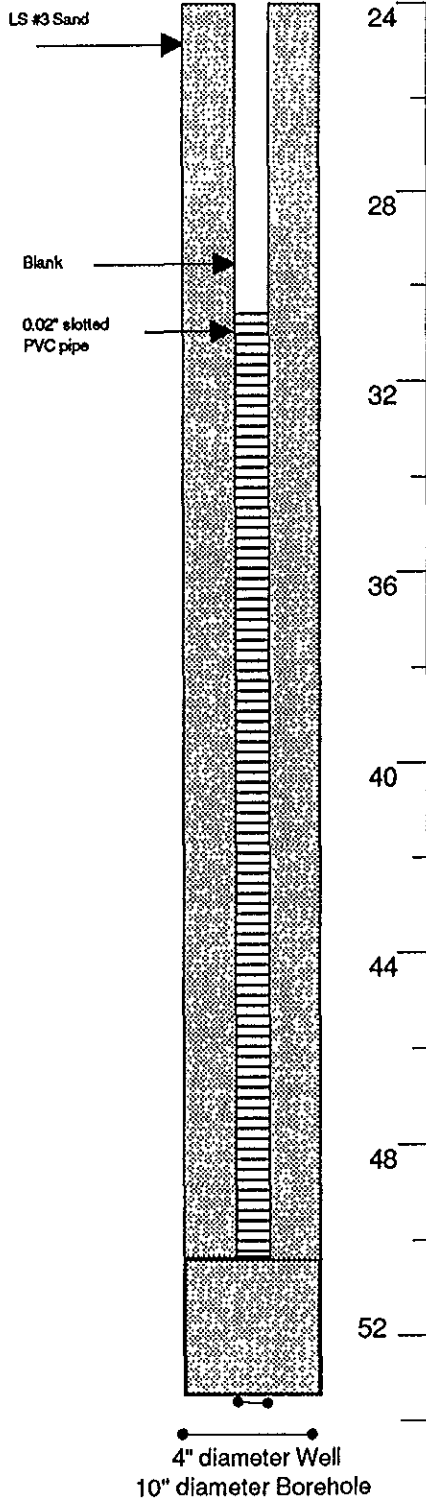
SCALE SHEET

SAMPLES

SOIL BORING GRAPHIC LOG

LITHOLOGIC DESCRIPTION

NO. TYPE BLOW



SAMPLES NO.	TYPE	BLOW	SOIL BORING GRAPHIC LOG	LITHOLOGIC DESCRIPTION
S-21	Grab	5,8,13	CL	See above
			CL	Brown silty clay. Heterogenous black and light brown/tan streaks. Medium plasticity. No odor. Gravel lens at 26.5 feet.
S-22	Grab	5, 8, 11	ML	Brown sandy silty clay.. Turquoise discoloration(?) in a clayey sand lens, odor of turpentine (old gasoline?). Lens is <1 foot thick. PID 0.00 ppm. Gastech 100.0 ppm.
S-23	Grab	8, 12, 13	SC	Medium sand fining upward to silty clay. Quartz, feldspar and lithic pebbles interbedded in matrix. No odor. Moist. Low plasticity.
S-24	Grab	8, 12, 14	GW	Saturated zone interface. Poorly sorted, subrounded pebbles in a sandy silty matrix. Occasional angular, finely laminated, chert pebbles. No odor. Low plasticity.

EXPLANATION

- Water level during drilling
- Water level in completed well
- Location of recovered drill sample
- Location of sample sealed for chemical analysis
- Sieve sample
- Grab sample
- Contacts: Solid where certain
- Dotted where approximate
- Dashed where uncertain
- Hachured where gradational
- est K Estimated permeability (hydraulic conductivity) 1K = primary 2K = secondary No recovery
- NR

CROSBY & OVERTON, INC.

WELL MW-3, PAGE 2

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Owner, Hoyt/Buettner
Job No. 8205-S














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DATE 5/22/91
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SCALE SHEET






UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS			GRAPHIC SYMBOL	LETTER SYMBOL	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LITTLE OR NO FINES)		G W	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		G P	POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		G M	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING NO. 4 SIEVE	CLEAN SAND (LITTLE OR NO FINES)		S W	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		S P	POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		S M	SILTY SANDS, SAND-SILT MIXTURES
FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS LIQUID LIMIT LESS THAN 50	SILTS AND CLAYS LIQUID LIMIT LESS THAN 50		M L	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
		SILTS AND CLAYS LIQUID LIMIT LESS THAN 50		C L	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
		SILTS AND CLAYS LIQUID LIMIT LESS THAN 50		O L	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50		M H	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
		SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50		C H	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
		SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50		O H	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				P T	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

KEY TO LOG OF BORINGS

SAMPLES & BLOWCOUNTS

-  HAMMER BLOWS PER FOOT OF PENETRATION
 - 30  INDICATES UNDISTURBED SAMPLE
 -  INDICATES DISTURBED SAMPLE
 -  STANDARD PENETRATION TEST SAMPLE
 -  INDICATES NO RECOVERY
- SAMPLES DRIVEN WITH A 140-POUND HAMMER DROPPING 30 INCHES

LABORATORY TESTS

- AL ATTERBERG LIMITS TEST
- DSCU DIRECT SHEAR TEST (Consolidated, Undrained)
- CBR CALIFORNIA BEARING RATIO TEST
- COMP COMPACTION TEST
- CON CONFINED COMPRESSION (Consolidation Test)
- 200 PERCENT PASSING NO. 200 SIEVE (Test Results in Parentheses)

APPENDIX C

WELL PRODUCTION DATA

WELL PRODUCTION LOG

TIME	t ₀ =	t ₁ =	t ₂ =	t ₃ =	t ₄ =	t ₅ =	t ₆ =	t ₇ =
	14:40	15:11	15:52					
DEPTH (feet)	35.51							
TEMPERATURE (°F)	66.6	66.6	66.6					
ELECTRIC COND. (u mhos/cm)	1,059	1,034	1,033					
pH	6.80	7.15	7.18					
VOLUME PUMPED			55 gal (total)					
Δt	$\Delta t_0 =$ 0	$\Delta t_1 =$ 31 min.	$\Delta t_2 =$ 41 min.	$\Delta t_3 =$	$\Delta t_4 =$	$\Delta t_5 =$	$\Delta t_6 =$	$\Delta t_7 =$
MISC.	MW-1	MW-1	MW-1					

DATE: 4 / 5 / 91 BA # : 8205-S SURFACE ELEV.: 63.97 feet

LOCATION: 22117 Meekland Ave., Hayward, CA

LOG BY : M. H. Walraven



CROSBY & OVERTON, INC.
8430 AMELIA STREET • OAKLAND, CA 94621

(800) 821-0424 • (415) 633-0336
FAX (415) 633-0759

WELL PRODUCTION LOG

TIME	t ₀ =	t ₁ =	t ₂ =	t ₃ =	t ₄ =	t ₅ =	t ₆ =	t ₇ =
DEPTH (feet)	35.24							
TEMPERATURE (°F)	68.7	66.6	66.6					
ELECTRIC COND. (u mhos/cm)	1,354	1,327	1,324					
pH	6.7	7.0	7.1					
VOLUME PUMPED			55 gal (total)					
Δt	$\Delta t_0 =$ 0	$\Delta t_1 =$ 28 min.	$\Delta t_2 =$ 33 min.	$\Delta t_3 =$	$\Delta t_4 =$	$\Delta t_5 =$	$\Delta t_6 =$	$\Delta t_7 =$
MISC.	MW-2	MW-2	MW-2					

DATE: 4 / 5 / 91 BA # : 8205 S SURFACE ELEV.: 63.71 feet

LOCATION: 22117 Meekland Ave., Hayward, CA

LOG BY : M. H. Walraven



CROSBY & OVERTON, INC.
8430 AMELIA STREET • OAKLAND, CA 94621

(800) 821-0424 • (415) 633-0336
FAX (415) 633-0759

WELL PRODUCTION LOG

TIME	t ₀ =	t ₁ =	t ₂ =	t ₃ =	t ₄ =	t ₅ =	t ₆ =	t ₇ =
	13:38	14:50	15:18					
DEPTH (feet)		35.19						
TEMPERATURE (°F)	68.3	67.2	67.2					
ELECTRIC COND. (u mhos/cm)	990	960	951					
PH	7.2	7.1	7.2					
VOLUME PUMPED			55 gal (total)					
Δt	$\Delta t_0 =$ 0	$\Delta t_1 =$ 82 min.	$\Delta t_2 =$ 28 min.	$\Delta t_3 =$	$\Delta t_4 =$	$\Delta t_5 =$	$\Delta t_6 =$	$\Delta t_7 =$
MISC.	MW-3	MW-3	MW-3					

DATE: 4 / 5 / 91 BA # : 8205-S SURFACE ELEV.: 63.65 feet
 LOCATION: 22117 Meekland Ave., Hayward, CA
 LOG BY : M. H. Walraven



CROSBY & OVERTON, INC.
 8430 AMELIA STREET • OAKLAND, CA 94621
 (800) 821-0424 • (415) 633-0336
 FAX (415) 633-0759

APPENDIX D

LAB REPORTS & CHAIN OF CUSTODY

LABORATORY ANALYSIS REPORT

CROSBY & OVERTON, INC..
8430 AMELIA STREET
OAKLAND, CA 94621
ATTN: DAVE SADOFF

REPORT DATE: 02/27/91

DATE SAMPLED: 02/21/91

DATE RECEIVED: 02/22/91

CLIENT PROJ. NO: 8205-S
PURCHASE ORDER NO: 11006

MED-TOX JOB NO: 9102151

ANALYSIS OF: SOIL SAMPLES

See attached for results

Michael Lynch for ABC
Andrew Braden, Manager
Organic Laboratory

Results FAXed to Dave Sadoff 02/25/91

CROSBY & OVERTON, INC.

REPORT DATE: 02/27/91

CLIENT PROJ. NO: 8205-S

MED-TOX JOB NO: 9102151

Sample Identification Client Id.	Lab No.	Oil & Grease (mg/kg)	Hydrocarbons (mg/kg)	Extractable Hydrocarbons as Diesel (mg/kg)	Extractable Hydrocarbons as Oil (mg/kg)
S1	01A	ND	ND	ND	ND
S2	02A	ND	ND	ND	ND
S3	03A	ND	ND	ND	ND
S4	04A	40	30	ND	30
S5	05A	ND	ND	ND	ND
S6	06A	ND	ND	ND	ND
S7	07A	ND	ND	ND	ND
S8	08A	ND	ND	ND	ND
S9	09A	ND	ND	ND	ND
Detection Limit		10	10	10	20
Method		5520E	5520F	3550 GCFID	3550 GCFID
Instrument		IR	IR	C	C
Date Extracted		02/22/91	02/22/91	02/22/91	02/22/91
Date Analyzed		02/24/91	02/24/91	02/23/91	02/23/91

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT ID: S1
CLIENT JOB NO: 8205-S
DATE SAMPLED: 02/21/91
DATE RECEIVED: 02/22/91
REPORT DATE: 02/27/91

MED-TOX LAB NO: 9102151-01A
MED-TOX JOB NO: 9102151
DATE ANALYZED: 02/22/91
INSTRUMENT: H

BTEX

METHOD: EPA 8020 (5030)

	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	ND	1
Toluene	ND	1
Ethylbenzene	ND	1
Xylenes, Total	ND	3

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT ID: S2
CLIENT JOB NO: 8205-S
DATE SAMPLED: 02/21/91
DATE RECEIVED: 02/22/91
REPORT DATE: 02/27/91

MED-TOX LAB NO: 9102151-02A
MED-TOX JOB NO: 9102151
DATE ANALYZED: 02/22/91
INSTRUMENT: H

BTEX

METHOD: EPA 8020 (5030)

	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	ND	1
Toluene	ND	1
Ethylbenzene	ND	1
Xylenes, Total	ND	3

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT ID: S3
CLIENT JOB NO: 8205-S
DATE SAMPLED: 02/21/91
DATE RECEIVED: 02/22/91
REPORT DATE: 02/27/91

MED-TOX LAB NO: 9102151-03A
MED-TOX JOB NO: 9102151
DATE ANALYZED: 02/22/91
INSTRUMENT: H

BTEX

METHOD: EPA 8020 (5030)

	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	ND	1
Toluene	ND	1
Ethylbenzene	ND	1
Xylenes, Total	ND	3

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT ID: S4
CLIENT JOB NO: 8205-S
DATE SAMPLED: 02/21/91
DATE RECEIVED: 02/22/91
REPORT DATE: 02/27/91

MED-TOX LAB NO: 9102151-04A
MED-TOX JOB NO: 9102151
DATE ANALYZED: 02/22/91
INSTRUMENT: H

BTEX

METHOD: EPA 8020 (5030)

	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	ND	1
Toluene	ND	1
Ethylbenzene	ND	1
Xylenes, Total	ND	3

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT ID: S5
CLIENT JOB NO: 8205-S
DATE SAMPLED: 02/21/91
DATE RECEIVED: 02/22/91
REPORT DATE: 02/27/91

MED-TOX LAB NO: 9102151-05A
MED-TOX JOB NO: 9102151
DATE ANALYZED: 02/22/91
INSTRUMENT: H

BTEX

METHOD: EPA 8020 (5030)

	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	ND	1
Toluene	ND	1
Ethylbenzene	ND	1
Xylenes, Total	ND	3

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT ID: S6
CLIENT JOB NO: 8205-S
DATE SAMPLED: 02/21/91
DATE RECEIVED: 02/22/91
REPORT DATE: 02/27/91

MED-TOX LAB NO: 9102151-06A
MED-TOX JOB NO: 9102151
DATE ANALYZED: 02/22/91
INSTRUMENT: H

BTEX

METHOD: EPA 8020 (5030)

	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	ND	1
Toluene	ND	1
Ethylbenzene	ND	1
Xylenes, Total	ND	3

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT ID: S7
CLIENT JOB NO: 8205-S
DATE SAMPLED: 02/21/91
DATE RECEIVED: 02/22/91
REPORT DATE: 02/27/91

MED-TOX LAB NO: 9102151-07A
MED-TOX JOB NO: 9102151
DATE ANALYZED: 02/22/91
INSTRUMENT: H

BTEX

METHOD: EPA 8020 (5030)

	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	ND	1
Toluene	ND	1
Ethylbenzene	ND	1
Xylenes, Total	ND	3

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT ID: S8
CLIENT JOB NO: 8205-S
DATE SAMPLED: 02/21/91
DATE RECEIVED: 02/22/91
REPORT DATE: 02/27/91

MED-TOX LAB NO: 9102151-08A
MED-TOX JOB NO: 9102151
DATE ANALYZED: 02/22/91
INSTRUMENT: H

BTEX

METHOD: EPA 8020 (5030)

	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	ND	1
Toluene	ND	1
Ethylbenzene	ND	1
Xylenes, Total	ND	3

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT ID: S9
CLIENT JOB NO: 8205-S
DATE SAMPLED: 02/21/91
DATE RECEIVED: 02/22/91
REPORT DATE: 02/27/91

MED-TOX LAB NO: 9102151-09A
MED-TOX JOB NO: 9102151
DATE ANALYZED: 02/22/91
INSTRUMENT: H

BTEX

METHOD: EPA 8020 (5030)

	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	ND	1
Toluene	ND	1
Ethylbenzene	ND	1
Xylenes, Total	ND	3

ND = Not Detected

QUALITY CONTROL DATA

CROSBY & OVERTON, INC.

CLIENT PROJ. NO: 8205-S

MED-TOX JOB NO: 9102151

DATE EXTRACTED: 02/22/91
DATE ANALYZED: 02/24/91
INSTRUMENT: IR

MED-TOX JOB NO: 9102151

CLIENT REF: 8205-S

IR DETERMINATION FOR OIL & GREASE/HYDROCARBONS
MATRIX SPIKE RECOVERY SUMMARY
SOIL MATRIX

ANALYTE	MS Conc. (mg/kg)	Sample Result (mg/kg)	MS Result (mg/kg)	MSD Result (mg/kg)	Average Percent Recovery	RPD
Oil & Grease	250	25	228	233	92.2	2.2

CURRENT QC LIMITS (Revised 11/12/90)

<u>Analyte</u>	<u>Percent Recovery</u>	<u>RPD</u>
Oil & Grease	(64-119)	15

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference
ND = Not Detected

DATE EXTRACTED: 02/22/91
DATE ANALYZED: 02/23/91
INSTRUMENT: C

MED-TOX JOB NO: 9102151
CLIENT REF: 8205-S

**MATRIX SPIKE RECOVERY SUMMARY
TPH EXTRACTABLE SOILS
METHOD 3550 GCFID
(SOIL MATRIX; EXTRACTION METHOD)**

ANALYTE	Spike Conc. (mg/kg)	Sample Result (mg/kg)	MS Result (mg/kg)	MSD Result (mg/kg)	Average Percent Recovery	RPD
Diesel	84.8	ND	75.9	76.9	90.1	1.3

CURRENT QC LIMITS (Revised 02/12/91)

<u>Analyte</u>	<u>Percent Recovery</u>	<u>RPD</u>
Diesel	(41.5-132.0)	18.8

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference
ND = Not Detected

DATE ANALYZED: 02/22/91

MED-TOX JOB NO: 9102151

INSTRUMENT: H

CLIENT REF: 8205-S

MATRIX SPIKE RECOVERY SUMMARY
METHOD 8020/5030 GCFID (PURGE & TRAP)
(SOIL MATRIX)

ANALYTE	Spike Conc. (ug/kg)	Sample Result (ug/kg)	MS Result (ug/kg)	MSD Result (ug/kg)	Average Percent Recovery	RPD
Benzene	34.6	ND	33.6	33.3	96.7	0.9
Toluene	110	ND	108	108	98.2	0.0
TPH as Gasoline	1030	ND	934	980	92.9	4.8

CURRENT QC LIMITS (Revised 11/12/90)

<u>Analyte</u>	<u>Percent Recovery</u>	<u>RPD</u>
Benzene	(75-122)	17
Toluene	(76-117)	19
TPH as Gasoline	(50-117)	17

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference
ND = Not Detected

9102101



CROSBY & OVERTON, INC.
Environmental Management

8430 Amelia Street
Oakland, California 94621
FAX (415) 633-0759
(415) 633-0336 • (800) 821-0424

PROJ. NO.	PROJECT NAME		P.O. NO		NO OF CONTAINERS	REMARKS														
82055	2217 MEEKLAND		11006																	
SAMPLERS: Signature <i>[Signature]</i> Send report attention to;					5520 E/F TPH-D+BTEX															
STA NO	DATE	TIME	COMP.	GRAB											STATION LOCATION					
21A S1	2/21/91	4:20		✓	W WALL 10'	1	X	X												
22A S2	"	4:28		✓	W WALL 20'	1	X	X												
23A S3	"	4:38		✓	N WALL 10'	1	X	X												
24A S4	"	4:42		✓	N WALL 20'	1	X	X												
25A S5	"	4:49		✓	E WALL 10'	1	X	X												
26A S6	"	4:51		✓	E WALL 20'	1	X	X												
27A S7	"	4:56		✓	CENTER, 23'	1	X	X												
28A S8	"	4:58		✓	S WALL 10'	1	X	X												
29A S9	"	5:03		✓	S WALL 20'	1	X	X												

Relinquished by: Signature <i>[Signature]</i>	Date/Time 2/22/91 8:25	Received by: Signature <i>[Signature]</i>	Date/Time 2-22-91 8:25 AM
Relinquished by: Signature <i>[Signature]</i>	Date/Time 2-22-91 9:04 AM	Received by: Signature <i>[Signature]</i>	Date/Time 2/22/91 9:05 AM
Relinquished by: Signature <i>[Signature]</i>	Date/Time 2/22/91 10:00 AM	Received by: Signature <i>[Signature]</i>	Date/Time 2/22/91 1000

REMARKS:
24 HOUR RUSH

Company Name
Address

A Division of Gillis International

LABORATORY ANALYSIS REPORT

CROSBY & OVERTON, INC.
8430 AMELIA STREET
OAKLAND, CA 94621
ATTN: DAVE SADOFF

REPORT DATE: 04/11/91

DATE SAMPLED: 03/21-25/91


DATE RECEIVED: 03/25/91

CLIENT PROJ. NO: 8205-S
PURCHASE ORDER NO: 11160

MED-TOX JOB NO: 9103149

ANALYSIS OF: SOIL SAMPLES

See attached for results


Andrew Bradeen, Manager
Organic Laboratory

Results FAXed to Dave Sadoff 04/03/91 & 04/10/91

CROSBY & OVERTON, INC.

REPORT DATE: 04/11/91

CLIENT PROJ. NO: 8205-S

MED-TOX JOB NO: 9103149

Sample Identification		Oil & Grease	Hydrocarbons	Extractable Hydrocarbons as Diesel	Extractable Hydrocarbons as Oil
Client Id.	Lab No.	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
S1	01A	ND	ND	ND	ND
S2	02A	ND	ND	ND	ND
S3	03A	ND	ND	ND	ND
S4	04A	ND	ND	ND	ND
S5	05A	10	10	ND	ND
S6	06A	ND	ND	ND	ND
S7	07A	ND	ND	ND	ND
S8	08A	200	190	30	60
S9	09A	20	10	ND	20
S10	10A	ND	ND	ND	ND
S11	11A	ND	ND	ND	ND
S12	12A	ND	ND	ND	ND
S13	13A	ND	ND	ND	ND
S14	14A	ND	ND	ND	ND
S15	15A	ND	ND	ND	ND
S16	16A	ND	ND	ND	ND
S17	17A	ND	ND	ND	ND
S18	18A	ND	ND	ND	ND
S19	19A	10	10	ND	ND
S20	20A	10	ND	ND	ND
S21	21A	10	10	ND	ND
S22	22A	ND	ND	ND	ND
S23	23A	ND	ND	ND	ND
S24	24A	ND	ND	ND	ND
Detection Limit		10	10	10	20
Method		5520E	5520F	3550 GCFID	3550 GCFID
Instrument		IR	IR	C	C

Date Extracted: 03/26, 28, 04/01/91

Date Analyzed: 03/27-04/03/91

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT JOB NO: 8205-S
CLIENT ID: S1
DATE SAMPLED: 03/21/91
DATE RECEIVED: 03/25/91
REPORT DATE: 04/11/91

MED-TOX LAB NO: 9103149-01A
MED-TOX JOB NO: 9103149
DATE ANALYZED: 03/27/91
INSTRUMENT: H

BTEX

METHOD: EPA 8020 (5030)

	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	71-43-2	ND	1
Toluene	108-88-3	ND	1
Ethylbenzene	100-41-4	ND	1
Xylenes, Total	1330-20-7	ND	3

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT JOB NO: 8205-S
CLIENT ID: S2
DATE SAMPLED: 03/21/91
DATE RECEIVED: 03/25/91
REPORT DATE: 04/11/91

MED-TOX LAB NO: 9103149-02A
MED-TOX JOB NO: 9103149
DATE ANALYZED: 03/27/91
INSTRUMENT: H

BTEX

METHOD: EPA 8020 (5030)

	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	71-43-2	ND	1
Toluene	108-88-3	ND	1
Ethylbenzene	100-41-4	ND	1
Xylenes, Total	1330-20-7	ND	3

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT JOB NO: 8205-S
CLIENT ID: S3
DATE SAMPLED: 03/21/91
DATE RECEIVED: 03/25/91
REPORT DATE: 04/11/91

MED-TOX LAB NO: 9103149-03A
MED-TOX JOB NO: 9103149
DATE ANALYZED: 03/27/91
INSTRUMENT: H

BTEX

METHOD: EPA 8020 (5030)

	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	71-43-2	ND	1
Toluene	108-88-3	ND	1
Ethylbenzene	100-41-4	ND	1
Xylenes, Total	1330-20-7	ND	3

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT JOB NO: 8205-S
CLIENT ID: S4
DATE SAMPLED: 03/21/91
DATE RECEIVED: 03/25/91
REPORT DATE: 04/11/91

MED-TOX LAB NO: 9103149-04A
MED-TOX JOB NO: 9103149
DATE ANALYZED: 03/27/91
INSTRUMENT: H

BTEX

METHOD: EPA 8020 (5030)

	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	71-43-2	ND	1
Toluene	108-88-3	ND	1
Ethylbenzene	100-41-4	ND	1
Xylenes, Total	1330-20-7	ND	3

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT JOB NO: 8205-S
CLIENT ID: S5
DATE SAMPLED: 03/21/91
DATE RECEIVED: 03/25/91
REPORT DATE: 04/11/91MED-TOX LAB NO: 9103149-05A
MED-TOX JOB NO: 9103149
DATE ANALYZED: 03/27/91
INSTRUMENT: H

BTEX

METHOD: EPA 8020 (5030)

	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	71-43-2	ND	1
Toluene	108-88-3	ND	1
Ethylbenzene	100-41-4	ND	1
Xylenes, Total	1330-20-7	ND	3

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT JOB NO: 8205-S
CLIENT ID: S6
DATE SAMPLED: 03/21/91
DATE RECEIVED: 03/25/91
REPORT DATE: 04/11/91

MED-TOX LAB NO: 9103149-06A
MED-TOX JOB NO: 9103149
DATE ANALYZED: 03/27/91
INSTRUMENT: H

BTEX

METHOD: EPA 8020 (5030)

	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	71-43-2	ND	1
Toluene	108-88-3	ND	1
Ethylbenzene	100-41-4	ND	1
Xylenes, Total	1330-20-7	ND	3

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT JOB NO: 8205-S
CLIENT ID: S7
DATE SAMPLED: 03/21/91
DATE RECEIVED: 03/25/91
REPORT DATE: 04/11/91

MED-TOX LAB NO: 9103149-07A
MED-TOX JOB NO: 9103149
DATE ANALYZED: 03/28/91
INSTRUMENT: H

BTEX

METHOD: EPA 8020 (5030)

	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	71-43-2	ND	1
Toluene	108-88-3	ND	1
Ethylbenzene	100-41-4	ND	1
Xylenes, Total	1330-20-7	ND	3

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT JOB NO: 8205-S
CLIENT ID: S8
DATE SAMPLED: 03/21/91
DATE RECEIVED: 03/25/91
REPORT DATE: 04/11/91

MED-TOX LAB NO: 9103149-08A
MED-TOX JOB NO: 9103149
DATE ANALYZED: 03/28/91
INSTRUMENT: H

BTEX

METHOD: EPA 8020 (5030)

	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	71-43-2	ND	1
Toluene	108-88-3	ND	1
Ethylbenzene	100-41-4	ND	1
Xylenes, Total	1330-20-7	ND	3

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT JOB NO: 8205-S
CLIENT ID: S9
DATE SAMPLED: 03/22/91
DATE RECEIVED: 03/25/91
REPORT DATE: 04/11/91

MED-TOX LAB NO: 9103149-09A
MED-TOX JOB NO: 9103149
DATE ANALYZED: 03/28/91
INSTRUMENT: H

BTEX

METHOD: EPA 8020 (5030)

	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	71-43-2	ND	1
Toluene	108-88-3	ND	1
Ethylbenzene	100-41-4	ND	1
Xylenes, Total	1330-20-7	ND	3

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT JOB NO: 8205-S
CLIENT ID: S10
DATE SAMPLED: 03/22/91
DATE RECEIVED: 03/25/91
REPORT DATE: 04/11/91

MED-TOX LAB NO: 9103149-10A
MED-TOX JOB NO: 9103149
DATE ANALYZED: 03/28/91
INSTRUMENT: H

BTEX

METHOD: EPA 8020 (5030)

	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	71-43-2	ND	1
Toluene	108-88-3	ND	1
Ethylbenzene	100-41-4	ND	1
Xylenes, Total	1330-20-7	ND	3

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT JOB NO: 8205-S
CLIENT ID: S11
DATE SAMPLED: 03/22/91
DATE RECEIVED: 03/25/91
REPORT DATE: 04/11/91

MED-TOX LAB NO: 9103149-11A
MED-TOX JOB NO: 9103149
DATE ANALYZED: 03/28/91
INSTRUMENT: H

BTEX

METHOD: EPA 8020 (5030)

	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	71-43-2	ND	1
Toluene	108-88-3	ND	1
Ethylbenzene	100-41-4	ND	1
Xylenes, Total	1330-20-7	ND	3

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT JOB NO: 8205-S
CLIENT ID: S12
DATE SAMPLED: 03/22/91
DATE RECEIVED: 03/25/91
REPORT DATE: 04/11/91

MED-TOX LAB NO: 9103149-12A
MED-TOX JOB NO: 9103149
DATE ANALYZED: 03/28/91
INSTRUMENT: H

BTEX

METHOD: EPA 8020 (5030)

	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	71-43-2	ND	1
Toluene	108-88-3	ND	1
Ethylbenzene	100-41-4	ND	1
Xylenes, Total	1330-20-7	ND	3

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT JOB NO: 8205-S
CLIENT ID: S13
DATE SAMPLED: 03/22/91
DATE RECEIVED: 03/25/91
REPORT DATE: 04/11/91

MED-TOX LAB NO: 9103149-13A
MED-TOX JOB NO: 9103149
DATE ANALYZED: 03/28/91
INSTRUMENT: H

BTEX

METHOD: EPA 8020 (5030)

	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	71-43-2	ND	1
Toluene	108-88-3	ND	1
Ethylbenzene	100-41-4	ND	1
Xylenes, Total	1330-20-7	ND	3

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT JOB NO: 8205-S
CLIENT ID: S14
DATE SAMPLED: 03/22/91
DATE RECEIVED: 03/25/91
REPORT DATE: 04/11/91

MED-TOX LAB NO: 9103149-14A
MED-TOX JOB NO: 9103149
DATE ANALYZED: 03/28/91
INSTRUMENT: .H

BTEX

METHOD: EPA 8020 (5030)

	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	71-43-2	ND	1
Toluene	108-88-3	ND	1
Ethylbenzene	100-41-4	ND	1
Xylenes, Total	1330-20-7	ND	3

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT JOB NO: 8205-S
CLIENT ID: S15
DATE SAMPLED: 03/22/91
DATE RECEIVED: 03/25/91
REPORT DATE: 04/11/91

MED-TOX LAB NO: 9103149-15A
MED-TOX JOB NO: 9103149
DATE ANALYZED: 03/28/91
INSTRUMENT: H

BTEX

METHOD: EPA 8020 (5030)

	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	71-43-2	ND	1
Toluene	108-88-3	ND	1
Ethylbenzene	100-41-4	ND	1
Xylenes, Total	1330-20-7	ND	3

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT JOB NO: 8205-S
CLIENT ID: S16
DATE SAMPLED: 03/22/91
DATE RECEIVED: 03/25/91
REPORT DATE: 04/11/91

MED-TOX LAB NO: 9103149-16A
MED-TOX JOB NO: 9103149
DATE ANALYZED: 03/28/91
INSTRUMENT: H

BTEX

METHOD: EPA 8020 (5030)

	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	71-43-2	ND	1
Toluene	108-88-3	ND	1
Ethylbenzene	100-41-4	ND	1
Xylenes, Total	1330-20-7	ND	3

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT JOB NO: 8205-S
CLIENT ID: S17
DATE SAMPLED: 03/22/91
DATE RECEIVED: 03/25/91
REPORT DATE: 04/11/91

MED-TOX LAB NO: 9103149-17A
MED-TOX JOB NO: 9103149
DATE ANALYZED: 03/28/91
INSTRUMENT: H

BTEX

METHOD: EPA 8020 (5030)

	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	71-43-2	ND	1
Toluene	108-88-3	ND	1
Ethylbenzene	100-41-4	ND	1
Xylenes, Total	1330-20-7	ND	3

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT JOB NO: 8205-S
CLIENT ID: S18
DATE SAMPLED: 03/22/91
DATE RECEIVED: 03/25/91
REPORT DATE: 04/11/91

MED-TOX LAB NO: 9103149-18A
MED-TOX JOB NO: 9103149
DATE ANALYZED: 03/28/91
INSTRUMENT: H

BTEX

METHOD: EPA 8020 (5030)

	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	71-43-2	ND	1
Toluene	108-88-3	ND	1
Ethylbenzene	100-41-4	ND	1
Xylenes, Total	1330-20-7	ND	3

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT JOB NO: 8205-S
CLIENT ID: S19
DATE SAMPLED: 03/22/91
DATE RECEIVED: 03/25/91
REPORT DATE: 04/11/91MED-TOX LAB NO: 9103149-19A
MED-TOX JOB NO: 9103149
DATE ANALYZED: 03/28/91
INSTRUMENT: H

BTEX

METHOD: EPA 8020 (5030)

	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	71-43-2	ND	1
Toluene	108-88-3	ND	1
Ethylbenzene	100-41-4	ND	1
Xylenes, Total	1330-20-7	ND	3

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT JOB NO: 8205-S
CLIENT ID: S20
DATE SAMPLED: 03/22/91
DATE RECEIVED: 03/25/91
REPORT DATE: 04/11/91

MED-TOX LAB NO: 9103149-20A
MED-TOX JOB NO: 9103149
DATE ANALYZED: 03/28/91
INSTRUMENT: H

BTEX

METHOD: EPA 8020 (5030)

	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	71-43-2	ND	1
Toluene	108-88-3	ND	1
Ethylbenzene	100-41-4	ND	1
Xylenes, Total	1330-20-7	ND	3

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT JOB NO: 8205-S
CLIENT ID: S21
DATE SAMPLED: 03/25/91
DATE RECEIVED: 03/25/91
REPORT DATE: 04/11/91

MED-TOX LAB NO: 9103149-21A
MED-TOX JOB NO: 9103149
DATE ANALYZED: 03/28/91
INSTRUMENT: H

BTEX

METHOD: EPA 8020 (5030)

	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	71-43-2	ND	1
Toluene	108-88-3	ND	1
Ethylbenzene	100-41-4	ND	1
Xylenes, Total	1330-20-7	ND	3

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT JOB NO: 8205-S
CLIENT ID: S22
DATE SAMPLED: 03/25/91
DATE RECEIVED: 03/25/91
REPORT DATE: 04/11/91

MED-TOX LAB NO: 9103149-22A
MED-TOX JOB NO: 9103149
DATE ANALYZED: 03/28/91
INSTRUMENT: H

BTEX

METHOD: EPA 8020 (5030)

	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	71-43-2	ND	1
Toluene	108-88-3	ND	1
Ethylbenzene	100-41-4	ND	1
Xylenes, Total	1330-20-7	ND	3

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT JOB NO: 8205-S
CLIENT ID: S23
DATE SAMPLED: 03/25/91
DATE RECEIVED: 03/25/91
REPORT DATE: 04/11/91

MED-TOX LAB NO: 9103149-23A
MED-TOX JOB NO: 9103149
DATE ANALYZED: 03/28/91
INSTRUMENT: H

BTEX

METHOD: EPA 8020 (5030)

	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	71-43-2	ND	1
Toluene	108-88-3	ND	1
Ethylbenzene	100-41-4	ND	1
Xylenes, Total	1330-20-7	ND	3

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT JOB NO: 8205-S
CLIENT ID: S24
DATE SAMPLED: 03/25/91
DATE RECEIVED: 03/25/91
REPORT DATE: 04/11/91

MED-TOX LAB NO: 9103149-24A
MED-TOX JOB NO: 9103149
DATE ANALYZED: 03/28/91
INSTRUMENT: H

BTEX

METHOD: EPA 8020 (5030)

	CAS #	CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
Benzene	71-43-2	ND	1
Toluene	108-88-3	ND	1
Ethylbenzene	100-41-4	ND	1
Xylenes, Total	1330-20-7	ND	3

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT JOB NO: 8205-S
CLIENT ID: TRIP BLANK
DATE SAMPLED: 03/25/91
DATE RECEIVED: 03/25/91
REPORT DATE: 04/11/91

MED-TOX LAB NO: 9103149-25A
MED-TOX JOB NO: 9103149
DATE ANALYZED: 03/26/91
INSTRUMENT: F

BTEX

METHOD: EPA 8020 (5030)

	CAS #	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Benzene	71-43-2	ND	0.3
Toluene	108-88-3	ND	0.3
Ethylbenzene	100-41-4	ND	0.3
Xylenes, Total	1330-20-7	ND	1

ND = Not Detected

QUALITY CONTROL DATA
CROSBY & OVERTON, INC.
CLIENT PROJ. NO: 8205-S
MED-TOX JOB NO: 9103149

DATE EXTRACTED: 03/28, 04/01/91
DATE ANALYZED: 04/02/91
INSTRUMENT: IR

MED-TOX JOB NO: 9103149

CLIENT REF: 8205-S

**IR DETERMINATION FOR OIL & GREASE/HYDROCARBONS
MATRIX SPIKE RECOVERY SUMMARY
SOIL MATRIX**

ANALYTE	MS Conc. (mg/kg)	Sample Result (mg/kg)	MS Result (mg/kg)	MSD Result (mg/kg)	Average Percent Recovery	RPD
Oil & Grease	236	35	226	226	80.9	0.0

CURRENT QC LIMITS (Revised 03/14/91)

<u>Analyte</u>	<u>Percent Recovery</u>	<u>RPD</u>
Oil & Grease	(53-132)	14

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference
ND = Not Detected

DATE EXTRACTED: 03/29/91
DATE ANALYZED: 03/29/91
INSTRUMENT: C

MED-TOX JOB NO: 9103149
CLIENT REF: 8205-S

**MATRIX SPIKE RECOVERY SUMMARY
TPH EXTRACTABLE SOILS
METHOD 3550 GCFID
(SOIL MATRIX; EXTRACTION METHOD)**

ANALYTE	Spike Conc. (mg/kg)	Sample Result (mg/kg)	MS Result (mg/kg)	MSD Result (mg/kg)	Average Percent Recovery	RPD
Diesel	84.8	ND	72.7	72.0	85.3	1.0

CURRENT QC LIMITS (Revised 02/12/91)

<u>Analyte</u>	<u>Percent Recovery</u>	<u>RPD</u>
Diesel	(41.5-132.0)	18.8

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference
ND = Not Detected

DATE ANALYZED: 03/26/91

MED-TOX JOB NO: 9103149

INSTRUMENT: F

CLIENT REF: 8205-S

MATRIX SPIKE RECOVERY SUMMARY

**METHOD 8020/5030 GCFID
(SOIL MATRIX)**

ANALYTE	Spike Conc. (ug/kg)	Sample Result (ug/kg)	MS Result (ug/kg)	MSD Result (ug/kg)	Average Percent Recovery	RPD
Benzene	22.4	ND	18.9	17.6	81.5	7.1
Toluene	65.0	1.1	54.5	53.6	83.2	1.7
TPH as Gasoline	515	ND	484	476	93.2	1.7

CURRENT QC LIMITS (Revised 02/18/91)

<u>Analyte</u>	<u>Percent Recovery</u>	<u>RPD</u>
Benzene	(77.4-120.8)	16.1
Toluene	(85.7-117.0)	15.4
TPH as Gasoline	(72.8-114.5)	18.4

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference
ND = Not Detected

DATE ANALYZED: 03/27/91

MED-TOX JOB NO: 9103149

INSTRUMENT: F

CLIENT REF: 8205-S

MATRIX SPIKE RECOVERY SUMMARY

**METHOD 8020/5030 GCFID
(SOIL MATRIX)**

ANALYTE	Spike Conc. (ug/kg)	Sample Result (ug/kg)	MS Result (ug/kg)	MSD Result (ug/kg)	Average Percent Recovery	RPD
Benzene	32.7	ND	32.6	33.4	100.9	2.4
Toluene	100.9	ND	100.4	101.7	100.1	1.3
TPH as Gasoline	1030	ND	901	862	85.6	4.4

CURRENT QC LIMITS (Revised 02/18/91)

Analyte	Percent Recovery	RPD
Benzene	(77.4-120.8)	16.1
Toluene	(85.7-117.0)	15.4
TPH as Gasoline	(72.8-114.5)	18.4

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference
ND = Not Detected

DATE ANALYZED: 03/28/91

MED-TOX JOB NO: 9103149

INSTRUMENT: F

CLIENT REF: 8205-S

MATRIX SPIKE RECOVERY SUMMARY

**METHOD 8020/5030 GCFID
(SOIL MATRIX)**

ANALYTE	Spike Conc. (ug/kg)	Sample Result (ug/kg)	MS Result (ug/kg)	MSD Result (ug/kg)	Average Percent Recovery	RPD
Benzene	30.1	ND	30.8	31.7	103.8	2.9
Toluene	93.8	ND	95.5	98.6	103.5	3.2
TPH as Gasoline	1030	ND	948	949	92.1	0.1

CURRENT QC LIMITS (Revised 02/18/91)

<u>Analyte</u>	<u>Percent Recovery</u>	<u>RPD</u>
Benzene	(77.4-120.8)	16.1
Toluene	(85.7-117.0)	15.4
TPH as Gasoline	(72.8-114.5)	18.4

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference
ND = Not Detected

710.45



CROSBY & OVERTON, INC.
 Environmental Management
 8430 Amelia Street
 Oakland, California 94621
 FAX (415) 633-0759
 (415) 633-0336 • (800) 821-0424

ROJ. NO.	PROJECT NAME	P.O. NO	NO OF CONTAINERS		REMARKS		
32055	2217 MEELAND	11160	5520 E/F TPH-D + BTXE				
AMPLERS: Signature <i>Paul Saloff</i> Send report attention to;							
TA NO	DATE	TIME			COMP.	GRAB	STATION LOCATION
S1	3/21/91	09:40				✓	MW-1 5'
S2	"	10:18				✓	MW-1 10'
S3	"	10:31				✓	MW-1 15'
S4	"	11:40				✓	MW-1 20'
S5	"	11:59				✓	MW-1 25'
S6	"	13:41		✓	MW-1 30'		
S7	"	13:58		✓	MW-1 35'		
S8	"	14:22		✓	MW-1 38'		

elinquished by:Signature <i>Paul Saloff</i>	Date/Time 3/25/91 15:16	Received by:Signature Vickie Hendricks	Date/Time 3/25/91 5:16
elinquished by:Signature Vickie Hendricks	Date/Time 3/25/91 4:25	Received by:Signature mechelle c. gress	Date/Time 3-25-91 11:25
elinquished by:Signature mechelle c. gress	Date/Time 3-25-91 17:15	Received by:Signature Anna Gillespie	Date/Time 3/25/91 17:20

REMARKS:
 NORMAL THT
 Company Name
 Address

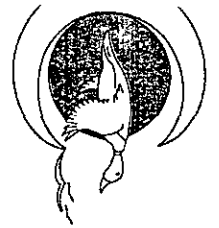


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 Environmental Management
 8430 Amelia Street
 Oakland, California 94621
 FAX (415) 633-0759
 (415) 633-0336 • (800) 821-0424

PROJ. NO.	PROJECT NAME	P.O. NO			NO OF CON-TAINERS											REMARKS					
32055	22117 MEEKLAND	11160	SAMPLERS: Signature		Send report attention to;	5520 FF TPH-D+B+X															
STA NO	DATE	TIME	COMP.	GRAB	STATION LOCATION																
S9	3/20/91	08:47	✓		MW-2 5'	1	X	X													
S10	"	9:13	✓		MW-2 10'	1	X	X													
S11	"	9:46	✓		MW-2 15'	1	X	X													
S12	"	10:34	✓		MW-2 20'	1	X	X													
S13	"	11:15	✓		MW-2 25'	1	X	X													
S14	"	11:56	✓		MW-2 30'	1	X	X													
S15	"	13:22	✓		MW-2 35'	1	X	X													
S16	"	13:46	✓		MW-2 40'	1	X	X													
S17	"	14:19	✓		MW-3 5'	1	X	X													
S18	"	14:41	✓		MW-3 10'	1	X	X													
S19	"	14:56	✓		MW-3 15'	1	X	X													
S20	"	15:03	✓		MW-3 20'	1	X	X													

Relinquished by: Signature	Date/Time	Received by: Signature	Date/Time
<i>[Signature]</i>	3/25/91 15:16	<i>Vickie Hernandez</i>	3/25/91 15:16
Relinquished by: Signature	Date/Time	Received by: Signature	Date/Time
<i>Vickie Hernandez</i>	3/25/91 4:25	<i>Michelle C. Grant</i>	3-25-91 1625
Relinquished by: Signature	Date/Time	Received by: Signature	Date/Time
<i>Michelle C. Grant</i>	3-25-91 1715	<i>Guina Gillespie</i>	3/25/91 1720

REMARKS:
 NORMAL TAT
 Company Name
 Address



CROSBY & OVERTON, INC.
 Environmental Management
 8430 Amelia Street
 Oakland, California 94621
 FAX (415) 633-0759
 (415) 633-0336 • (800) 821-0424

PROJ. NO.	PROJECT NAME	P.O. NO	NO OF CONTAINERS	REMARKS															
82055	22117 MEE KLAND	11160																	
SAMPLERS: Signature <i>[Signature]</i>		Send report attention to;																	
STA NO	DATE	TIME	COMP.	GRAB	STATION LOCATION														
S21	3/25/91	09:13		✓	MW-3 25'	1	X	X											
S22	"	09:37		✓	MW-3 30'	1	X	X											
S23	"	10:01		✓	MW-3 35'	1	X	X											
S24	"	10:32		✓	MW-3 38'	1	X	X											
					TRIP BLANK	2													

5520 ELK TRAIL BLVD

Relinquished by: Signature <i>[Signature]</i>	Date/Time 3/25/91 15:16	Received by: Signature Vickie Hendricks	Date/Time 3/25/91 15:16
Relinquished by: Signature Vickie Hendricks	Date/Time 3/25/91 4:25	Received by: Signature michelle C. Gust	Date/Time 3-25-91 16:25
Relinquished by: Signature michelle C. Gust	Date/Time 3-25-91 17:15	Received by: Signature Gina Gillespie	Date/Time 3/25/91 17:20

REMARKS:
 NORMAL TAT
 Company Name
 Address

A Division of Gillis International

LABORATORY ANALYSIS REPORT

CROSBY & OVERTON, INC.
 8430 AMELIA STREET
 OAKLAND, CA 94621
 ATTN: MATT WALRAVEN

REPORT DATE: 04/18/91

DATE SAMPLED: 04/05/91

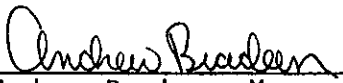
DATE RECEIVED: 04/08/91

CLIENT PROJ. NO: 8205-S
 PURCHASE ORDER NO: 11249

MED-TOX JOB NO: 9104070

ANALYSIS OF: WATER SAMPLES

Sample Identification		Oil & Grease	Hydrocarbons	Extractable Hydrocarbons as Diesel	Extractable Hydrocarbons as Oil
Client Id.	Lab No.	(mg/L)	(mg/L)	(mg/L)	(mg/L)
A-1	01A	ND	ND	---	---
A-1	01D	---	---	ND	ND
A-2	02A	ND	ND	---	---
A-2	02D	---	---	ND	0.2
A-3	03A	ND	ND	---	---
A-3	03D	---	---	ND	ND
Detection Limit		0.5	0.5	0.05	0.1
Method		5520C	5520F	3510 GCFID	3510 GCFID
Instrument		IR	IR	C	C
Date Extracted:		04/11/91	04/11/91	04/09/91	04/09/91
Date Analyzed:		04/12/91	04/12/91	04/09/91	04/09/91
ND = Not Detected					


 Andrew Bradeen, Manager
 Organic Laboratory

Results FAXed to Matt Walraven 04/16/91

CROSBY & OVERTON, INC.

CLIENT JOB NO: 8205-S
CLIENT ID: A-1
DATE SAMPLED: 04/05/91
DATE RECEIVED: 04/08/91
REPORT DATE: 04/18/91

MED-TOX LAB NO: 9104070-01A
MED-TOX JOB NO: 9104070
DATE ANALYZED: 04/16/91
INSTRUMENT: F

BTEX (WATER MATRIX)

METHOD: EPA 8020 (5030)

	CAS #	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Benzene	71-43-2	ND	0.3
Toluene	108-88-3	ND	0.3
Ethylbenzene	100-41-4	ND	0.3
Xylenes, Total	1330-20-7	ND	1

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT JOB NO: 8205-S
CLIENT ID: A-2
DATE SAMPLED: 04/05/91
DATE RECEIVED: 04/08/91
REPORT DATE: 04/18/91

MED-TOX LAB NO: 9104070-02A
MED-TOX JOB NO: 9104070
DATE ANALYZED: 04/16/91
INSTRUMENT: F

BTEX (WATER MATRIX)

METHOD: EPA 8020 (5030)

	CAS #	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Benzene	71-43-2	ND	0.3
Toluene	108-88-3	ND	0.3
Ethylbenzene	100-41-4	ND	0.3
Xylenes, Total	1330-20-7	ND	1

ND = Not Detected

CROSBY & OVERTON, INC.

CLIENT JOB NO: 8205-S
CLIENT ID: A-3
DATE SAMPLED: 04/05/91
DATE RECEIVED: 04/08/91
REPORT DATE: 04/18/91

MED-TOX LAB NO: 9104070-03A
MED-TOX JOB NO: 9104070
DATE ANALYZED: 04/16/91
INSTRUMENT: F

BTEX (WATER MATRIX)

METHOD: EPA 8020 (5030)

	CAS #	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Benzene	71-43-2	ND	0.3
Toluene	108-88-3	ND	0.3
Ethylbenzene	100-41-4	ND	0.3
Xylenes, Total	1330-20-7	ND	1

ND = Not Detected

QUALITY CONTROL DATA
CROSBY & OVERTON, INC.
CLIENT PROJ. NO: 8205-S
MED-TOX JOB NO: 9104070

DATE EXTRACTED: 04/17/91
DATE ANALYZED: 04/17/91
INSTRUMENT: IR

MED-TOX JOB NO: 9104070
CLIENT REF: 8205-S

IR DETERMINATION FOR OIL & GREASE/HYDROCARBONS
MATRIX SPIKE RECOVERY SUMMARY
SOIL MATRIX

ANALYTE	MS Conc. (mg/L)	Sample Result (mg/L)	MS Result (mg/L)	MSD Result (mg/L)	Average Percent Recovery	RPD
Oil & Grease	7.06	ND	7.23	7.06	101.2	1.7

CURRENT QC LIMITS (Revised 03/14/91)

<u>Analyte</u>	<u>Percent Recovery</u>	<u>RPD</u>
Oil & Grease	(70-121)	7.1

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference
ND = Not Detected

DATE EXTRACTED: 04/09/91
DATE ANALYZED: 04/09/91
INSTRUMENT: CMED-TOX JOB NO: 9104070
CLIENT REF: 8205-S**MATRIX SPIKE RECOVERY SUMMARY
TPH EXTRACTABLE SOILS
METHOD 3550 GCFID
(SOIL MATRIX; EXTRACTION METHOD)**

ANALYTE	Spike Conc. (mg/L)	Sample Result (mg/L)	MS Result (mg/L)	MSD Result (mg/L)	Average Percent Recovery	RPD
Diesel	0.509	ND	0.370	0.330	68.8	11.4

CURRENT QC LIMITS (Revised 02/12/91)

<u>Analyte</u>	<u>Percent Recovery</u>	<u>RPD</u>
Diesel	(39.2-106.5)	33.2

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference
ND = Not Detected

DATE ANALYZED: 04/16/91

MED-TOX JOB NO: 9104070

INSTRUMENT: F

CLIENT REF: 8205-S

MATRIX SPIKE RECOVERY SUMMARY
METHOD TPHBTW
5030 w/GCFID/8020

ANALYTE	Spike Conc. (ug/L)	Sample Result (ug/L)	MS Result (ug/L)	MSD Result (ug/L)	Average Percent Recovery	RPD
Benzene	20.9	ND	19.9	20.7	97.1	3.9
Toluene	64.4	ND	60.2	62.3	95.1	3.4
Hydrocarbons as Gasoline	515	ND	468	500	94.0	6.6

CURRENT QC LIMITS (Revised 02/18/91)

<u>Analyte</u>	<u>Percent Recovery</u>	<u>RPD</u>
Benzene	(77.4-120.8)	16.1
Toluene	(79.5-117.0)	15.4
Gasoline	(64.5-114.5)	18.4

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference
ND = Not Detected

3,5

9104070



PROJ. NO.	PROJECT NAME		P.O. NO		NO OF CONTAINERS	REMARKS									
8205-3	22117 Meekland		11240				<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">IPH + BLX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">IPH + BLX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">5520 EE</div> </div>								
SAMPLERS: Signature <i>Matthew Alvarado</i> Send report attention to; <i>Matt Walraven</i>															
STA NO	DATE	TIME	COMP.	GRAB	STATION LOCATION										
A-1	4/5/91	15:20		X	MW-3 O1A-E										
A-2	"	15:40		X	MW-2 O2A-E										
A-3	"	15:55		X	MW-1 O3A-E										

CROSBY & OVERTON, INC.
 Environmental Management
 8430 Amelic Street
 Oakland, California 94621
 FAX (415) 633-0759
 (415) 633-0336 • (800) 821-0424

Relinquished by: Signature <i>Matthew Alvarado</i>	Date/Time 4/8/91 13:25	Received by: Signature <i>mechelle c. quest</i>	Date/Time 4-8-91 13:25	REMARKS: Normal T.A.T.
Relinquished by: Signature <i>mechelle c. quest</i>	Date/Time 4-8-91 1640	Received by: Signature	Date/Time	
Relinquished by: Signature	Date/Time	Received by: Signature <i>Cuni Cullespie</i>	Date/Time 4/8/91 1640	

Company Name *Med-Tox Assoc.*
 Address *3440 Vincent Road Pleasant Hill, CA*

94523

APPENDIX E

HEALTH & SAFETY PLANS



CROSBY & OVERTON, INC.
JOB SAFETY PLAN

Project Location: 22117 Meekland Ave. Hayward, CA.
C & O Job Number: 8205-S

The possible hazards on this job are expected to be:
physical hazards associated with working a track excavator,
rubber tire skip loader and open excavation. Chemical
hazards from gasoline, benzene, toluene, ethylbenzene and
xylenes, oil and grease.

Required personal protective equipment for this project:
Level D Protection (steel toe neoprene boots, coveralls,
work gloves, hard hat, safety glasses, and ear plugs when
necessary). Level C Protection on standby (OV cartridges).

CROSBY AND OVERTON, INC.
JOB SAFETY PLAN

1. Site: 22117 Meekland Ave. Hayward, CA.
2. Location: cross street is Poplar Av.
3. Plan Prepared: Crosby and Overton, Inc. Date: 2/20/91
4. Plan Approved: Dave Sadoff, PM Date: 2/20/91
Ted Haavisto, HSO Date: 2/20/91
5. Facility Description: Empty lot, formerly tractor yard.
6. Status (active, inactive, unknown): inactive
7. Surroundings: Site is bounded by S.P.T. Co. Rail Road tracks, Meekland Ave.
8. Site Map: Attached
9. Climate: Moderate dry summers, cool wet winters
10. Site history (origin of contamination and history of injuries exposure, chemical spills, complaints, etc.). Soil contaminated from leaking underground tanks filled with gasoline, and Oil. Excavation was back filled with contaminated soil.
11. Description of work: Excavate contaminated soil, stockpile soil. Construction of a biore mediation bed using plastic, sand, 2"x12" lumber, and contaminated soil laid atop the sand. Soil will be tilled using a tractor mounted tiller, watered with sprinklers, and periodically covered with plastic sheeting.
12. Chemical contaminants:

Chemical	Media	Minimum	Maximum
Gasoline	soil/water.	0	7,700 ppm
Benzene	soil/water.	0	.28 ppb
Toluene	soil/water.	0	3.7 ppb
Ethylbenzene	soil/water.	0	2.8 ppb
Xylenes	soil/water.	0	21 ppb
Oil & Grease	soil/water.	0	16,000 ppm
Chromium	soil/water	0	33 ppb
Lead	soil/water	0	18 ppb
Zinc	soil/water	0	56 ppb

13. Procedures to mitigate hazards:

A) Mechanical Hazards

- verify that all equipment is in good condition
- barricade area or otherwise restrict access
- exercise caution when working in close proximity to the excavation equipment and tiller.

B) Electrical Hazards

- maintain at least 10 feet of clearance from overhead power lines
- properly ground all electrical equipment
- avoid standing in water when operating electrical equipment
- be familiar with specific operating instructions for each piece of equipment
- barricade area or otherwise restrict access
- deactivate any source of ignition within 25 feet of work area

C) Chemical Hazards

- use personal protective equipment listed above
- conduct direct reading air monitoring to evaluate respiratory and explosion hazards
- wash hands before eating or drinking
- avoid hand to mouth contact before washing hands
- keep dust to a minimum, avoid breathing dust

D) Temperature Hazards

- Heat: when temperature exceeds 70 F, take frequent breaks in shaded area. Unzip or remove coveralls during breaks. Have cool water or electrolyte replenishment solution available. Drink small amounts frequently to avoid dehydration. Count the pulse rate for 30 seconds, as early as possible in the rest period. If the pulse rate exceeds 110 beats per minute at the beginning of the rest period, shorten the work cycle by one-third.
- Cold: wear multi-layer cold weather outfits the outer layer should be of wind-resistant fabric.

E) Acoustical Hazards

- use earplugs when noise level prevents conversation in normal voice at a distance of three feet.

F) Organic Vapors

- monitor organic vapors. If total hydrocarbons exceed 5 ppm above background, don Level C personal protective equipment
- if total hydrocarbons exceed 500 ppm, supply mechanical ventilation
- monitor lower explosive limit. If LEL exceeds 20%, leave area and call fire department
- no smoking within 25 feet of working area

14. Decontamination procedures: Steam clean equipment before leaving work area. Wash boots and gloves. Launder coveralls. Wash hands and face as soon as possible after stopping work.

15. Materials generated on-site: No materials will be generated on site.

16. Site resources: Drinking water, rest rooms and a pay Phone are available.

17. Emergency equipment: Fire extinguisher and first aid kit to be on-site at all times.

18. Emergency telephone numbers:

Ambulance 911

Police 911

Fire Department 911

Hospital: Saint Rose Hospital (415) 782-6200

Poison Control Center 800-233-3360

Project Manager: Office 633-0336 Home 834-2691

HSO: Office 633-0336 Home 537-7318

19. Emergency routes: Map attached. Route: Proceed South-East on Meekland to West A st. Turn Right on to West A st. Get on to Hwy. 880 south bound. Exit at W. Tennyson. Turn Right from Exit on to W. Tennyson. Turn Right on Calaroga Av. Enter the Emergency entrance.

CROSBY & OVERTON, INC.
JOB SAFETY PLAN

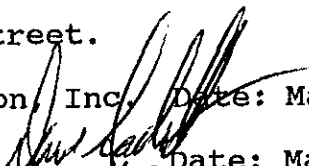
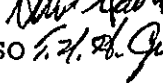
Project Location: 22117 Meekland Blvd. Hayward, CA.

C & O Job Number: 8205-S

The possible hazards associated with this job are expected to be:
physical hazards associated with working a truck-mounted drill
rig, acoustical hazards associated with concrete drilling,
chemical hazards from petroleum hydrocarbons as gasoline,
benzene, toluene, ethylbenzene and xylenes.

Required personal protective equipment for this project: Level D
Protection (steel toe neoprene boots, coveralls, work gloves,
hard hat, safety glasses, and ear plugs when necessary).
Level C Protection on standby (OV cartridges).

CROSBY AND OVERTON, INC.
JOB SAFETY PLAN

1. Site: 22117. Meekland Ave. Hayward, CA.
2. Location: Cross street is 'A' Street.
3. Plan Prepared: Crosby and Overton, Inc. Date: March 20, 1991
4. Plan Approved: Dave Sadoff, PM  Date: March 20, 1991
Ted Haavisto, HSO  Date: March 20, 1991
5. Facility Description: Open lot, facing small business garages.
6. Status (active, inactive, unknown): Active
7. Surroundings: Site is bounded by SP Railroad (west), small businesses (south), Community church (east), construction and auto repair (north).
8. Site Map: Attached
9. Climate: Moderate dry summers, cool wet winters
10. Site history (origin of contamination and history of injuries exposure, chemical spills, complaints, etc.).
Soil contaminated from leaking underground waste oil tanks. Contaminated soil was removed by over-excavation. Bioremediation of excavated soil will be completed on site. No injuries or complaints to date associated with the site.
11. Description of work: Construction of three ground water monitoring wells.
12. Chemical contaminants:

Chemical	Media	Minimum	Maximum
Gasoline	soil/water.	0	7,700 ppm
Benzene	soil/water.	0	.28 ppb
Toluene	soil/water.	0	3.7 ppb
Ethylbenzene	soil/water.	0	2.8 ppb
Xylenes	soil/water.	0	21 ppm
Oil & Grease	soil/water.	0	16,000 ppm
Chromium	soil/water	0	33 ppm
Lead	soil/water	0	18 ppm
Zinc	soil/water	0	56 ppm

13. Procedures to mitigate hazards:

A) Mechanical Hazards

- verify that all equipment is in good condition
- barricade area or otherwise restrict access
- exercise caution when working in close proximity to the drill rig.

B) Electrical Hazards

- locate and mark buried utilities before drilling
- maintain at least 10 feet of clearance from overhead power lines
- properly ground all electrical equipment
- avoid standing in water when operating electrical equipment
- be familiar with specific operating instructions for each piece of equipment
- barricade area or otherwise restrict access
- deactivate any source of ignition within 25 feet of work area

C) Chemical Hazards

- use personal protective equipment listed above
- conduct direct reading air monitoring to evaluate respiratory and explosion hazards
- wash hands before eating or drinking
- avoid hand to mouth contact before washing hands
- keep dust to a minimum, avoid breathing dust

D) Temperature Hazards

- Heat: when temperature exceeds 70° F, take frequent breaks in shaded area. Unzip or remove coveralls during breaks. Have cool water or electrolyte replenishment solution available. Drink small amounts frequently to avoid dehydration. Count the pulse rate for 30 seconds, as early as possible in the rest period. If the pulse rate exceeds 110 beats per minute at the beginning of the rest period, shorten the work cycle by one-third.
- Cold: wear multilayer cold weather outfits, the outer layer should be of wind-resistant fabric.

E) Acoustical Hazards

- use earplugs when noise level prevents conversation in normal voice at a distance of three feet.

F) Organic Vapors

- monitor organic vapors. If total hydrocarbons exceed 5 ppm above background, don Level C personal protective equipment
 - if total hydrocarbons exceed 500 ppm, supply mechanical ventilation
 - monitor lower explosive limit. If LEL exceeds 20%, leave area and call fire department
 - no smoking within 25 feet of working area
14. Decontamination procedures: Steam clean equipment before leaving work area. Wash boots and gloves. Launder coveralls. Wash hands and face as soon as possible after stopping work.
15. Materials generated on-site: Drum drill cuttings, decon water, and well water in DOT approved drums with proper labels and markings. Leave on-site pending analytic results.
16. Site resources: Drinking water, rest rooms and a pay phone are available.
17. Emergency equipment: Fire extinguisher and first aid kit to be on-site at all times.
18. Emergency telephone numbers:
- Ambulance 911
 - Police 911
 - Fire Department 911
 - Hospital: Saint Rose Hospital (415) 782-6200
 - Poison Control Center 800-233-3360
 - Project Manager: Office 633-0336 Home 834-2691
 - HSO: Office 633-0336 Home 537-7318
19. Emergency routes: Map attached. Route: From Mission Blvd. Turn Left to Tennyson Rd. Follow to Calaroga Ave. Turn Right on Calaroga Ave. Entrance to Emergency is on the Right.

- 20. Project personnel list and safety plan distribution record: All project staff must sign, indicating they have read and understand the Safety Plan.

WAYNE ENV.

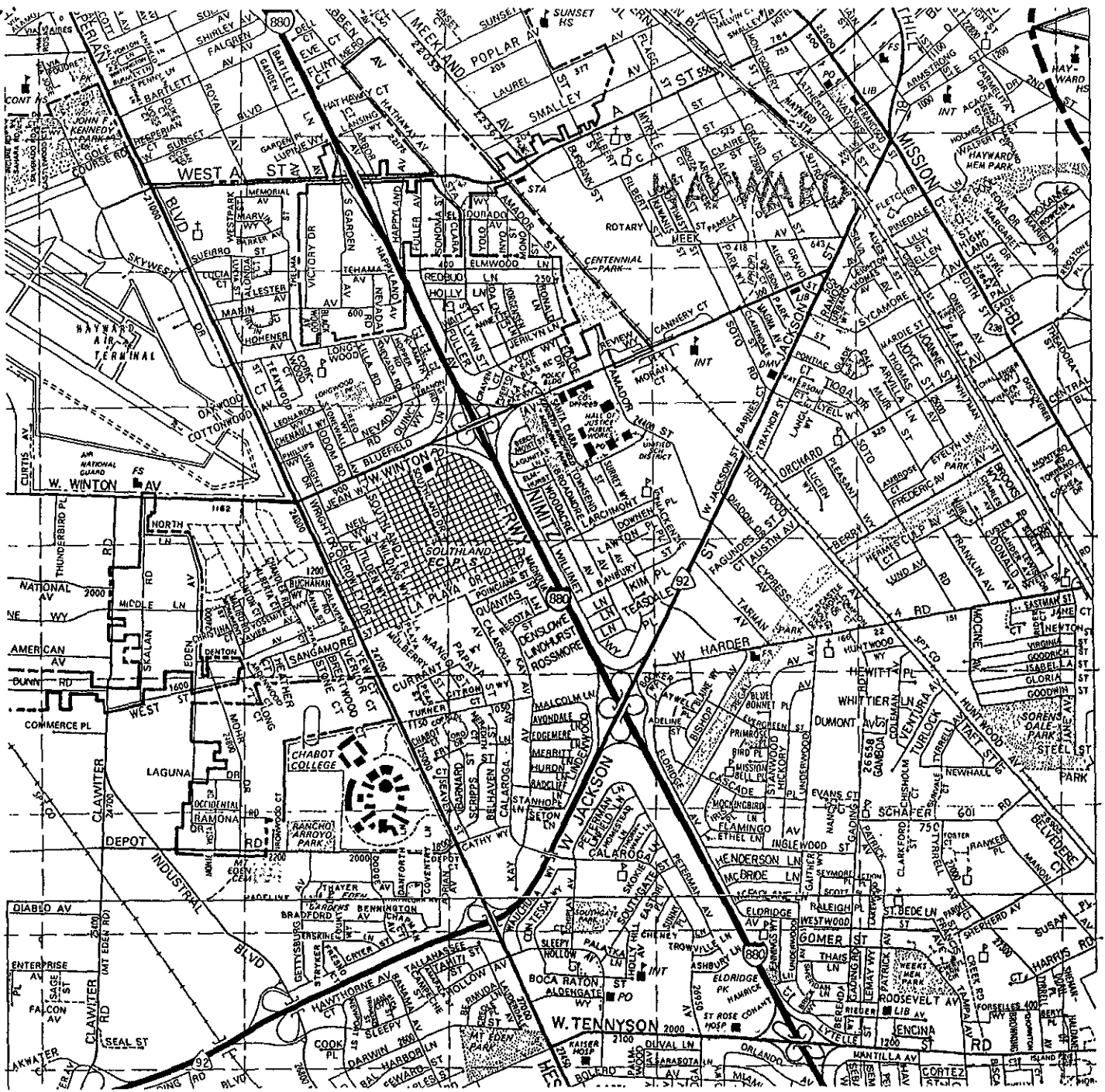
Employee Name	Date/Time	Signature
Jim McDonald	3-21-91	[Signature]
Anthony Lombardo	3-21-91	[Signature]
Dave Sadoft	3/21/91	[Signature]
Matthew [unclear]	3/21/91	[Signature]
MARK AYALA	3/22/91	[Signature]
Robert D. [unclear]	3-25-91	[Signature]

- 21. Health and safety meeting: All personnel participating in the project must receive initial health and safety orientation. Thereafter, a brief "tailgate" safety meeting is required as deemed necessary by the Health and Safety Officer.

Date	Topics	Name	Employee Initial

22. Visitors: It is Crosby & Overton policy that visitors must furnish his/her own personal protective equipment. All visitors are required to sign the visitor log and comply with the safety plan requirements.

Name of Visitor	Firm Name	Date/Time	Signature
<i>Lynn B. Reed</i>	<i>L. B. REED CONST.</i>	<i>3/2/91 12:00</i>	<i>L. B. REED</i>



Emergency routes: Map attached. Route: Proceed South-East on Meekland to West A st. Turn Right on to West A st. Get on to Hwy. 880 south bound. Exit at W. Tennyson. Turn Right from Exit on to W. Tennyson. Turn Right on Calaroga Av. Enter the Emergency entrance.



CROSBY & OVERTON, INC.

Environmental Management

222117 Meekland Ave.
Hayward, CA

DATE: 2/20/91 JOB NUMBER: 8205-S

DRAWN BY: MARK AYALA

APPENDIX F

BACKFILL RECEIPTS

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture

DATE	TIME
MAR 5 91	09:45

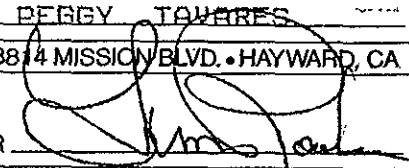
EAST BAY EXCAVATING CO. INC.

OFFICE LOCATED AT LA VISTA QUARRY
28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080
CONT. LIC. # 192897

CUSTOMER NAME		COMMODITY	
L. B. REED		QUARRY FINES	
JOB DESCRIPTION		JOB NUMBER	
H B MEEKLAND		LBR1	
JOB LOCATION		LOAD #	TRUCK #
HAYWARD		2	3

DRIVER IN VEHICLE
GROSS TONS
13.25
TARE TONS
6.00
NET TONS
7.25

EAST BAY EXCAVATING CO., INC.
WEIGH MASTER TONS TODAY = 14.70

BY PEGGY TAQUARES
WEIGHED AT 28814 MISSION BLVD. • HAYWARD, CA
RECEIVED BY 
FOR CUSTOMER

R116890

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE. THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOB OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

DUPLICATE DELIVERY RECEIPT

WEIGHMASTER CERTIFICATE

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DATE	TIME
MAR 5 91	08:29

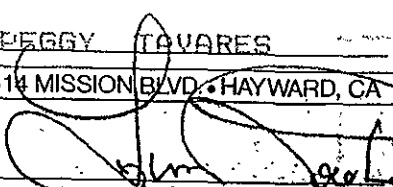
EAST BAY EXCAVATING CO. INC.

OFFICE LOCATED AT LA VISTA QUARRY
28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080
CONT. LIC. # 192897

CUSTOMER NAME		COMMODITY	
L. B. REED		QUARRY FINES	
JOB DESCRIPTION		JOB NUMBER	
H B MEEKLAND		LBR1	
JOB LOCATION		LOAD #	TRUCK #
HAYWARD		1	3

DRIVER IN VEHICLE
GROSS TONS
13.45
TARE TONS
6.00
NET TONS
7.45

EAST BAY EXCAVATING CO., INC.
WEIGH MASTER TONS TODAY = 7.45

BY PEGGY TAQUARES
WEIGHED AT 28814 MISSION BLVD. • HAYWARD, CA
RECEIVED BY 
FOR CUSTOMER

R116887

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE. THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOB OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

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DATE	TIME
MAR 5 91	12:36

EAST BAY EXCAVATING CO. INC.
 OFFICE LOCATED AT LA VISTA QUARRY
 28814 MISSION BLVD • HAYWARD, CALIFORNIA 94544 • (415) 538-5080
 CONT. LIC. # 192897

CUSTOMER NAME		COMMODITY	
L. B. REED		QUARRY FINES	
JOB DESCRIPTION		JOB NUMBER	
H B MEEKLAND		LBR1	
JOB LOCATION		LOAD #	TRUCK #
HAYWARD		4	3

DRIVER IN VEHICLE
GROSS TONS
12.95
TARE TONS
6.00
NET TONS
6.95

EAST BAY EXCAVATING CO., INC.
 WEIGH MASTER TONS TODAY = 30.50

BY PEGGY TAVARRES
 WEIGHED AT 28814 MISSION BLVD. • HAYWARD, CA
 RECEIVED BY [Signature]
 FOR CUSTOMER [Signature]

R116893

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOB OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

DUPLICATE DELIVERY RECEIPT

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DATE	TIME
MAR 5 91	10:39

EAST BAY EXCAVATING CO. INC.
 OFFICE LOCATED AT LA VISTA QUARRY
 28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080
 CONT. LIC. # 192897

CUSTOMER NAME		COMMODITY	
L. B. REED		QUARRY FINES	
JOB DESCRIPTION		JOB NUMBER	
H B MEEKLAND		LBR1	
JOB LOCATION		LOAD #	TRUCK #
HAYWARD		3	3

DRIVER IN VEHICLE
GROSS TONS
14.85
TARE TONS
6.00
NET TONS
8.85

EAST BAY EXCAVATING CO., INC.
 WEIGH MASTER TONS TODAY = 23.55

BY PEGGY TAVARRES
 WEIGHED AT 28814 MISSION BLVD. • HAYWARD, CA
 RECEIVED BY [Signature]
 FOR CUSTOMER [Signature]

R116891

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOB OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

DUPLICATE DELIVERY RECEIPT

WEIGHMASTER CERTIFICATE

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DATE	TIME
MAR 4 91	08:30

EAST BAY EXCAVATING CO. INC.
 OFFICE LOCATED AT LA VISTA QUARRY
 28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080
 CONT. LIC. # 192897

CUSTOMER NAME		COMMODITY	
L. B. REED		A	
JOB DESCRIPTION		JOB NUMBER	
H B MEEKLAND		LBR1	
JOB LOCATION		D #	TRUCK #
HAYWARD		1	3

DRIVER IN VEHICLE
GROSS TONS
13.40
TARE TONS
5.90
NET TONS
7.50

EAST BAY EXCAVATING CO., INC.
 WEIGH MASTER TONS TODAY 7.50

BY PEGGY TAIVARES
 WEIGHED AT 28814 MISSION BLVD. • HAYWARD, CA
 RECEIVED BY [Signature]
 FOR CUSTOMER

R116873

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLED AT THE PLANT SITE THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOB OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

DUPLICATE DELIVERY RECEIPT

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DATE	TIME
MAR 5 91	13:33

EAST BAY EXCAVATING CO. INC.
 OFFICE LOCATED AT LA VISTA QUARRY
 28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080
 CONT. LIC. # 192897

CUSTOMER NAME		COMMODITY	
L. B. REED		QUARRY FINES	
JOB DESCRIPTION		JOB NUMBER	
H B MEEKLAND		LBR1	
JOB LOCATION		LOAD #	TRUCK #
HAYWARD		5	3

DRIVER IN VEHICLE
GROSS TONS
12.20
TARE TONS
6.00
NET TONS
6.20

EAST BAY EXCAVATING CO., INC.
 WEIGH MASTER TONS TODAY = 36.70

BY PEGGY TAIVARES
 WEIGHED AT 28814 MISSION BLVD. • HAYWARD, CA
 RECEIVED BY [Signature]
 FOR CUSTOMER

R116894

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOB OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

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DATE	TIME
MAR 4 91	10:53

EAST BAY EXCAVATING CO. INC.
 OFFICE LOCATED AT LA VISTA QUARRY
 28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080
 CONT. LIC. # 192897

CUSTOMER NAME		COMMODITY	
L. B. REED		AB3	
JOB DESCRIPTION		JOB NUMBER	
H B MEEKLAND		LBRJ	
JOB LOCATION		LOAD #	TRUCK #
HAYWARD		3	3

DRIVER IN VEHICLE
GROSS TONS
13.50
TARE TONS
5.90
NET TONS
7.60

EAST BAY EXCAVATING CO., INC.
 WEIGH MASTER TONS TODAY = 22.90

BY PEGGY TAVARES
 WEIGHED AT 28814 MISSION BLVD. • HAYWARD, CA
 RECEIVED BY [Signature]
 FOR CUSTOMER [Signature]

R116876

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE. THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOR OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

DUPLICATE DELIVERY RECEIPT

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DATE	TIME
MAR 4 91	09:32

EAST BAY EXCAVATING CO. INC.
 OFFICE LOCATED AT LA VISTA QUARRY
 28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080
 CONT. LIC. # 192897

CUSTOMER NAME		COMMODITY	
L. B. REED		AB3	
JOB DESCRIPTION		JOB NUMBER	
H B MEEKLAND		LBR1	
JOB LOCATION		LOAD #	TRUCK #
HAYWARD		2	3

DRIVER IN VEHICLE
GROSS TONS
13.70
TARE TONS
5.90
NET TONS
7.80

EAST BAY EXCAVATING CO., INC.
 WEIGH MASTER TONS TODAY = 25.80

BY PEGGY TAVARES
 WEIGHED AT 28814 MISSION BLVD. • HAYWARD, CA
 RECEIVED BY [Signature]
 FOR CUSTOMER [Signature]

R116874

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE. THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOR OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

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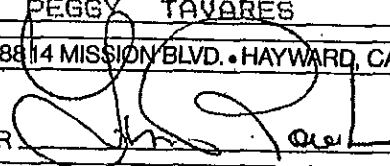

DATE	TIME
FEB 26 91	11:42

EAST BAY EXCAVATING CO. INC.
 OFFICE LOCATED AT LA VISTA QUARRY
 28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080
 CONT. LIC. # 192897

CUSTOMER NAME		COMMODITY	
L. B. REED		AB3	
JOB DESCRIPTION		JOB NUMBER	
H B MEEKLAND		LBR1	
JOB LOCATION		LOAD #	TRUCK #
HAYWARD		4	3

DRIVER IN VEHICLE
GROSS TONS 13.45
TARE TONS 5.95
NET TONS 7.50

EAST BAY EXCAVATING CO., INC.
 WEIGH MASTER TONS TODAY = 29.55

BY PEGGY TAVARES
 WEIGHED AT 28814 MISSION BLVD. • HAYWARD, CA
 RECEIVED BY 
 FOR CUSTOMER 

R116783

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE. THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOR OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

DUPLICATE DELIVERY RECEIPT

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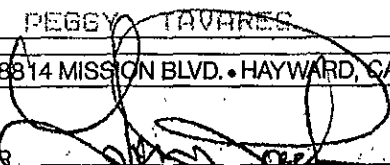

DATE	TIME
MAR 4 91	11:41

EAST BAY EXCAVATING CO. INC.
 OFFICE LOCATED AT LA VISTA QUARRY
 28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080
 CONT. LIC. # 192897

CUSTOMER NAME		COMMODITY	
L. B. REED		AB3	
JOB DESCRIPTION		JOB NUMBER	
H B MEEKLAND		LBR1	
JOB LOCATION		LOAD #	TRUCK #
HAYWARD		4	3

DRIVER IN VEHICLE
GROSS TONS 12.90
TARE TONS 5.90
NET TONS 7.00

EAST BAY EXCAVATING CO., INC.
 WEIGH MASTER TONS TODAY = 29.90

BY PEGGY TAVARES
 WEIGHED AT 28814 MISSION BLVD. • HAYWARD, CA
 RECEIVED BY 
 FOR CUSTOMER 

R116878

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE. THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOR OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

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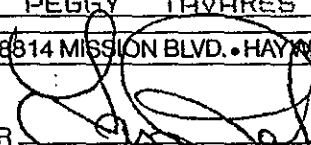
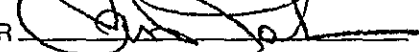
DATE	TIME
FEB 26 91	14:03

EAST BAY EXCAVATING CO. INC.
 OFFICE LOCATED AT LA VISTA QUARRY
 28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080
 CONT. LIC. # 192897

CUSTOMER NAME		COMMODITY	
L. B. REED		AB3	
JOB DESCRIPTION		JOB NUMBER	
H B MEEKLAND		LBR1	
JOB LOCATION		LOAD #	TRUCK #
HAYWARD		6	3

DRIVER IN VEHICLE
GROSS TONS
14.60
TARE TONS
5.95
NET TONS
8.65

EAST BAY EXCAVATING CO., INC.
 WEIGH MASTER TONS TODAY = 45.50

BY PEGGY TAVARES
 WEIGHED AT 28814 MISSION BLVD. • HAYWARD, CA
 RECEIVED BY 
 FOR CUSTOMER 

R116798

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE. THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOR OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

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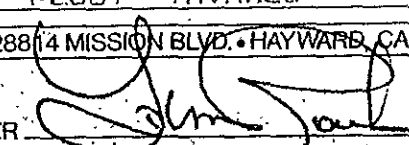
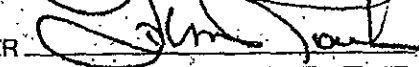
DATE	TIME
FEB 26 91	13:01

EAST BAY EXCAVATING CO. INC.
 OFFICE LOCATED AT LA VISTA QUARRY
 28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080
 CONT. LIC. # 192897

CUSTOMER NAME		COMMODITY	
L. B. REED		AB3	
JOB DESCRIPTION		JOB NUMBER	
H B MEEKLAND		LBR1	
JOB LOCATION		LOAD #	TRUCK #
HAYWARD		5	3

DRIVER IN VEHICLE
GROSS TONS
13.25
TARE TONS
5.95
NET TONS
7.30

EAST BAY EXCAVATING CO., INC.
 WEIGH MASTER TONS TODAY = 36.85

BY PEGGY TAVARES
 WEIGHED AT 28814 MISSION BLVD. • HAYWARD, CA
 RECEIVED BY 
 FOR CUSTOMER 

R116791

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE. THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOR OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

DUPLICATE DELIVERY RECEIPT

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture

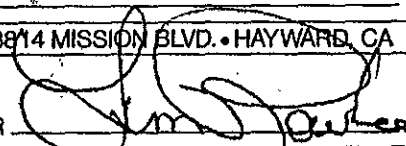
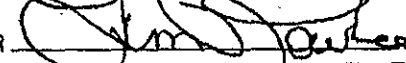
DATE	TIME
FEB 28 91	08:26

EAST BAY EXCAVATING CO. INC.
 OFFICE LOCATED AT LA VISTA QUARRY
 28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080
 CONT. LIC. # 192897

CUSTOMER NAME		COMMODITY		
L. B. REED		ABB		
JOB DESCRIPTION		JOB NUMBER		
H B MEEKLAND		LBR1		
JOB LOCATION		LOAD #	TRUCK #	
HAYWARD		1	3	

DRIVER IN VEHICLE
GROSS TONS
13.10
TARE TONS
6.05
NET TONS
7.05

EAST BAY EXCAVATING CO., INC.
 WEIGH MASTER TONS TODAY = 7.05

BY PEGGY TAVARES
 WEIGHED AT 28814 MISSION BLVD. • HAYWARD, CA
 RECEIVED BY 
 FOR CUSTOMER 

R116840

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE. THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOB OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

DUPLICATE DELIVERY RECEIPT

WEIGHMASTER CERTIFICATE

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DATE	TIME
FEB 26 91	14:48

EAST BAY EXCAVATING CO. INC.
 OFFICE LOCATED AT LA VISTA QUARRY
 28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080
 CONT. LIC. # 192897

CUSTOMER NAME		COMMODITY		
L. B. REED		ABB		
JOB DESCRIPTION		JOB NUMBER		
H B MEEKLAND		LBR1		
JOB LOCATION		LOAD #	TRUCK #	
HAYWARD		7	3	

DRIVER IN VEHICLE
GROSS TONS
13.90
TARE TONS
5.95
NET TONS
7.95

EAST BAY EXCAVATING CO., INC.
 WEIGH MASTER TONS TODAY = 53.45

BY PEGGY TAVARES
 WEIGHED AT 28814 MISSION BLVD. • HAYWARD, CA
 RECEIVED BY 
 FOR CUSTOMER 

R116801

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE. THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOB OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

DUPLICATE DELIVERY RECEIPT

WEIGHMASTER CERTIFICATE

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DATE	TIME
FEB 28 91	10:23

EAST BAY EXCAVATING CO. INC.

OFFICE LOCATED AT LA VISTA QUARRY
28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080
CONT. LIC. # 192897

CUSTOMER NAME		COMMODITY	
L. B. REED		AB3	
JOB DESCRIPTION		JOB NUMBER	
H B MEEKLAND		LBR1	
JOB LOCATION		LOAD #	TRUCK #
HAYWARD		3	3

DRIVER IN VEHICLE
GROSS TONS
13.10
TARE TONS
6.05
NET TONS
7.05

EAST BAY EXCAVATING CO., INC.
WEIGH MASTER TONS TODAY = 21.65

BY PEGGY TAVARES
WEIGHED AT 28814 MISSION BLVD. • HAYWARD, CA
RECEIVED BY [Signature]
FOR CUSTOMER [Signature]

R116846

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE. THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOB OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

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DATE	TIME
FEB 28 91	09:48

EAST BAY EXCAVATING CO. INC.

OFFICE LOCATED AT LA VISTA QUARRY
28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080
CONT. LIC. # 192897

CUSTOMER NAME		COMMODITY	
L. B. REED		AB3	
JOB DESCRIPTION		JOB NUMBER	
H B MEEKLAND		LBR1	
JOB LOCATION		LOAD #	TRUCK #
HAYWARD		2	3

DRIVER IN VEHICLE
GROSS TONS
13.60
TARE TONS
6.05
NET TONS
7.55

EAST BAY EXCAVATING CO., INC.
WEIGH MASTER TONS TODAY = 14.60

BY PEGGY TAVARES
WEIGHED AT 28814 MISSION BLVD. • HAYWARD, CA
RECEIVED BY [Signature]
FOR CUSTOMER [Signature]

R116844

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE. THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOB OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

DUPLICATE DELIVERY RECEIPT

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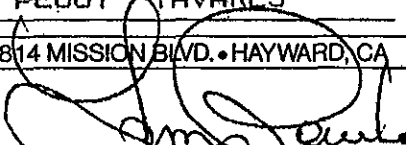

DATE	TIME
FEB 28 91	11:52

EAST BAY EXCAVATING CO. INC.
 OFFICE LOCATED AT LA VISTA QUARRY
 28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080
 CONT. LIC. # 192897

CUSTOMER NAME		COMMODITY	
L. B. REED		AB3	
JOB DESCRIPTION		JOB NUMBER	
H B MEEKLAND		LBR1	
JOB LOCATION		LOAD #	TRUCK #
HAYWARD		5	3

DRIVER IN VEHICLE
GROSS TONS 13.20
TARE TONS 6.05
NET TONS 7.15

EAST BAY EXCAVATING CO., INC.
 WEIGH MASTER TONS TODAY = 36.45

BY PEGGY TAVARES
 WEIGHED AT 28814 MISSION BLVD. • HAYWARD, CA
 RECEIVED BY 
 FOR CUSTOMER 

R116852

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE. THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOB OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

DUPLICATE DELIVERY RECEIPT

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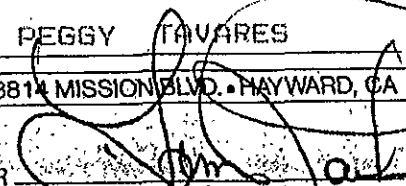

DATE	TIME
FEB 28 91	11:15

EAST BAY EXCAVATING CO. INC.
 OFFICE LOCATED AT LA VISTA QUARRY
 28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080
 CONT. LIC. # 192897

CUSTOMER NAME		COMMODITY	
L. B. REED		AB3	
JOB DESCRIPTION		JOB NUMBER	
H B MEEKLAND		LBR1	
JOB LOCATION		LOAD #	TRUCK #
HAYWARD		4	3

DRIVER IN VEHICLE
GROSS TONS 13.70
TARE TONS 6.05
NET TONS 7.65

EAST BAY EXCAVATING CO., INC.
 WEIGH MASTER TONS TODAY = 29.30

BY PEGGY TAVARES
 WEIGHED AT 28814 MISSION BLVD. • HAYWARD, CA
 RECEIVED BY 
 FOR CUSTOMER 

R116849

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE. THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOB OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

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DATE	TIME	EAST BAY EXCAVATING CO. INC. OFFICE LOCATED AT LA VISTA QUARRY 28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080 CONT. LIC. # 192897		
FEB 28 91	13:43			
CUSTOMER NAME		COMMODITY		
L. B. REED		AB3		
JOB DESCRIPTION		JOB NUMBER		
H B MEEKLAND		LBR1		
JOB LOCATION		LOAD #	TRUCK #	
HAYWARD		7	3	

DRIVER IN VEHICLE
GROSS TONS
13.15
TARE TONS
6.05
NET TONS
7.10

EAST BAY EXCAVATING CO., INC.
WEIGH MASTER TONS TODAY = 50.40

BY	PEGGY TAVARES
WEIGHED AT	28814 MISSION BLVD. • HAYWARD, CA
RECEIVED BY	<i>[Signature]</i>
FOR CUSTOMER	<i>[Signature]</i>

R116857

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE. THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOB OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

DUPLICATE DELIVERY RECEIPT

WEIGHMASTER CERTIFICATE

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DATE	TIME	EAST BAY EXCAVATING CO. INC. OFFICE LOCATED AT LA VISTA QUARRY 28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080 CONT. LIC. # 192897		
FEB 28 91	12:59			
CUSTOMER NAME		COMMODITY		
L. B. REED		AB3		
JOB DESCRIPTION		JOB NUMBER		
H B MEEKLAND		LBR1		
JOB LOCATION		LOAD #	TRUCK #	
HAYWARD		6	3	

DRIVER IN VEHICLE
GROSS TONS
12.90
TARE TONS
6.05
NET TONS
6.85

EAST BAY EXCAVATING CO., INC.
WEIGH MASTER TONS TODAY = 43.50

BY	PEGGY TAVARES
WEIGHED AT	28814 MISSION BLVD. • HAYWARD, CA
RECEIVED BY	<i>[Signature]</i>
FOR CUSTOMER	<i>[Signature]</i>

R116855

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE. THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOB OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

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EAST BAY EXCAVATING CO. INC.

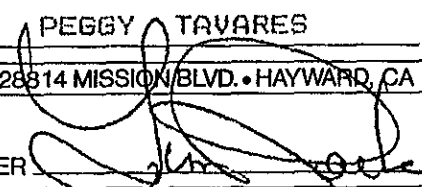

OFFICE LOCATED AT LA VISTA QUARRY
28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080
CONT. LIC. # 192897

DATE	TIME
FEB 28 91	15:06

CUSTOMER NAME		COMMODITY	
L. B. REED		AB3	
JOB DESCRIPTION		JOB NUMBER	
H B MEEKLAND		LBR1	
JOB LOCATION		LOAD #	TRUCK #
HAYWARD		9	3

DRIVER IN VEHICLE
GROSS TONS 13.20
TARE TONS 6.05
NET TONS 7.15

EAST BAY EXCAVATING CO., INC.
WEIGH MASTER TONS TODAY = 65.10

BY PEGGY TAVARES
WEIGHED AT 28814 MISSION BLVD. • HAYWARD, CA
RECEIVED BY 
FOR CUSTOMER 

R116862

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE. THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOR OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

DUPLICATE DELIVERY RECEIPT

WEIGHMASTER CERTIFICATE

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EAST BAY EXCAVATING CO. INC.

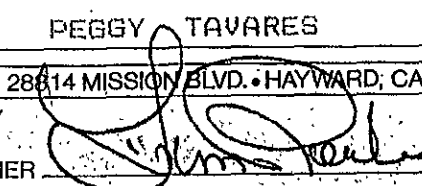
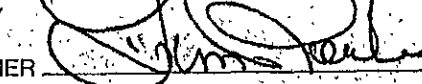
OFFICE LOCATED AT LA VISTA QUARRY
28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080
CONT. LIC. # 192897

DATE	TIME
FEB 28 91	14:23

CUSTOMER NAME		COMMODITY	
L. B. REED		AB3	
JOB DESCRIPTION		JOB NUMBER	
H B MEEKLAND		LBR1	
JOB LOCATION		LOAD #	TRUCK #
HAYWARD		8	3

DRIVER IN VEHICLE
GROSS TONS 13.60
TARE TONS 6.05
NET TONS 7.55

EAST BAY EXCAVATING CO., INC.
WEIGH MASTER TONS TODAY = 57.95

BY PEGGY TAVARES
WEIGHED AT 28814 MISSION BLVD. • HAYWARD, CA
RECEIVED BY 
FOR CUSTOMER 

R116860

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE. THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOR OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

WEIGHMASTER CERTIFICATE

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EAST BAY EXCAVATING CO. INC.

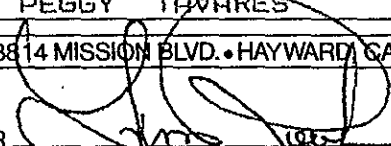

OFFICE LOCATED AT LA VISTA QUARRY
28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080
CONT. LIC. # 192897

DATE	TIME
FEB 26 91	10:56

CUSTOMER NAME		COMMODITY	
L. B. REED		AB3	
JOB DESCRIPTION		JOB NUMBER	
H B MEEKLAND		LBR1	
JOB LOCATION		LOAD #	TRUCK #
HAYWARD		3	3

DRIVER IN VEHICLE
GROSS TONS
15.20
TARE TONS
5.95
NET TONS
9.25

EAST BAY EXCAVATING CO., INC.
WEIGH MASTER TONS TODAY = 22.05

BY PEGGY TAVARES
WEIGHED AT 28814 MISSION BLVD. • HAYWARD, CA
RECEIVED BY 
FOR CUSTOMER 

R116782

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE. THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOR OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

DUPLICATE DELIVERY RECEIPT

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EAST BAY EXCAVATING CO. INC.


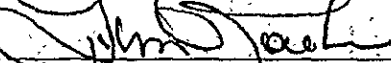
OFFICE LOCATED AT LA VISTA QUARRY
28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080
CONT. LIC. # 192897

DATE	TIME
FEB 26 91	10:09

CUSTOMER NAME		COMMODITY	
L. B. REED		AB3	
JOB DESCRIPTION		JOB NUMBER	
H B MEEKLAND		LBR1	
JOB LOCATION		LOAD #	TRUCK #
HAYWARD		2	3

DRIVER IN VEHICLE
GROSS TONS
13.60
TARE TONS
5.95
NET TONS
7.65

EAST BAY EXCAVATING CO., INC.
WEIGH MASTER TONS TODAY = 12.80

BY PEGGY TAVARES
WEIGHED AT 28814 MISSION BLVD. • HAYWARD, CA
RECEIVED BY 
FOR CUSTOMER 

R116776

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE. THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOR OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

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DATE	TIME
FEB 27 91	08:29

EAST BAY EXCAVATING CO. INC.
 OFFICE LOCATED AT LA VISTA QUARRY
 28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080
 CONT. LIC. # 192897

CUSTOMER NAME		COMMODITY	
L. B. REED		AB3	
JOB DESCRIPTION		JOB NUMBER	
H B MEEKLAND		LBR1	
JOB LOCATION		LOAD #	TRUCK #
HAYWARD		1	3

DRIVER IN VEHICLE
GROSS TONS
13.65
TARE TONS
5.90
NET TONS
7.75

EAST BAY EXCAVATING CO., INC.
 WEIGH MASTER TONS TODAY = 7.75

BY PEGGY TAVARES
 WEIGHED AT 28814 MISSION BLVD. • HAYWARD, CA
 RECEIVED BY 
 FOR CUSTOMER

R116809

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE. THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOR OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

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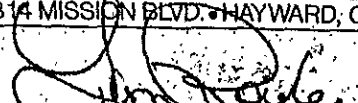
DATE	TIME
FEB 26 91	08:56

EAST BAY EXCAVATING CO. INC.
 OFFICE LOCATED AT LA VISTA QUARRY
 28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080
 CONT. LIC. # 192897

CUSTOMER NAME		COMMODITY	
L. B. REED		AB3	
JOB DESCRIPTION		JOB NUMBER	
H B MEEKLAND		LBR1	
JOB LOCATION		LOAD #	TRUCK #
HAYWARD		1	3

DRIVER IN VEHICLE
GROSS TONS
11.10
TARE TONS
5.95
NET TONS
5.15

EAST BAY EXCAVATING CO., INC.
 WEIGH MASTER TONS TODAY = 5.15

BY PEGGY TAVARES
 WEIGHED AT 28814 MISSION BLVD. • HAYWARD, CA
 RECEIVED BY 
 FOR CUSTOMER

R116765

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE. THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOR OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

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EAST BAY EXCAVATING CO. INC.

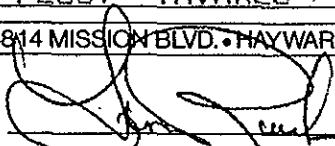

OFFICE LOCATED AT LA VISTA QUARRY
28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080
CONT. LIC. # 192897

DATE	TIME
FEB 27 91	09:54

CUSTOMER NAME		COMMODITY	
L. B. REED		ABB	
JOB DESCRIPTION		JOB NUMBER	
H B MEEKLAND		LBR1	
JOB LOCATION		LOAD #	TRUCK #
HAYWARD		3	3

DRIVER IN VEHICLE
GROSS TONS
13.10
TARE TONS
5.90
NET TONS
7.20

EAST BAY EXCAVATING CO., INC.
WEIGH MASTER TONS TODAY = 22.80

BY PEGGY TAVARES
WEIGHED AT 28814 MISSION BLVD. • HAYWARD, CA
RECEIVED BY 
FOR CUSTOMER 

R116816

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE. THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOR OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

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EAST BAY EXCAVATING CO. INC.

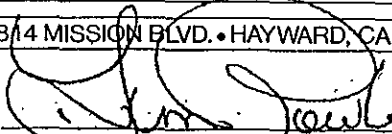
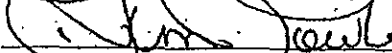
OFFICE LOCATED AT LA VISTA QUARRY
28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080
CONT. LIC. # 192897

DATE	TIME
FEB 27 91	09:18

CUSTOMER NAME		COMMODITY	
L. B. REED		ABB	
JOB DESCRIPTION		JOB NUMBER	
H B MEEKLAND		LBR1	
JOB LOCATION		LOAD #	TRUCK #
HAYWARD		2	3

DRIVER IN VEHICLE
GROSS TONS
13.75
TARE TONS
5.90
NET TONS
7.85

EAST BAY EXCAVATING CO., INC.
WEIGH MASTER TONS TODAY = 35.60

BY PEGGY TAVARES
WEIGHED AT 28814 MISSION BLVD. • HAYWARD, CA
RECEIVED BY 
FOR CUSTOMER 

R116814

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE. THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOR OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

DUPLICATE DELIVERY RECEIPT

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

DATE	TIME
FEB 27 91	11:48

EAST BAY EXCAVATING CO. INC.
 OFFICE LOCATED AT LA VISTA QUARRY
 28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080
 CONT. LIC. # 192897

CUSTOMER NAME		COMMODITY	
L. B. REED		AB3	
JOB DESCRIPTION		JOB NUMBER	
H B MEEKLAND		LBR1	
JOB LOCATION		LOAD #	TRUCK #
HAYWARD		5	3

DRIVER IN VEHICLE
GROSS TONS
12.20
TARE TONS
5.90
NET TONS
6.30

EAST BAY EXCAVATING CO., INC.
 WEIGH MASTER TONS TODAY = 35.90

BY PEGGY TAVARES
 WEIGHED AT 28814 MISSION BLVD. • HAYWARD, CA
 RECEIVED BY [Signature]
 FOR CUSTOMER [Signature]

R116825

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE. THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOB OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

DUPLICATE DELIVERY RECEIPT

WEIGHMASTER CERTIFICATE

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DATE	TIME
FEB 27 91	10:47

EAST BAY EXCAVATING CO. INC.
 OFFICE LOCATED AT LA VISTA QUARRY
 28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080
 CONT. LIC. # 192897

CUSTOMER NAME		COMMODITY	
L. B. REED		AB3	
JOB DESCRIPTION		JOB NUMBER	
H B MEEKLAND		LBR1	
JOB LOCATION		LOAD #	TRUCK #
HAYWARD		4	3

DRIVER IN VEHICLE
GROSS TONS
12.70
TARE TONS
5.90
NET TONS
6.80

EAST BAY EXCAVATING CO., INC.
 WEIGH MASTER TONS TODAY = 29.60

BY PEGGY TAVARES
 WEIGHED AT 28814 MISSION BLVD. • HAYWARD, CA
 RECEIVED BY [Signature]
 FOR CUSTOMER [Signature]

R116820

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE. THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOB OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

WEIGHMASTER CERTIFICATE

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EAST BAY EXCAVATING CO. INC.

OFFICE LOCATED AT LA VISTA QUARRY
28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080
CONT. LIC. # 192897

DATE	TIME
FEB 27 91	13:54

CUSTOMER NAME		COMMODITY	
L. B. REED		AB3	
JOB DESCRIPTION		JOB NUMBER	
H B MEEKLAND		LBR1	
JOB LOCATION		LOAD #	TRUCK #
HAYWARD		7	3

DRIVER IN VEHICLE
GROSS TONS
12.90
TARE TONS
5.90
NET TONS
7.00

EAST BAY EXCAVATING CO., INC.
WEIGH MASTER TONS TODAY = 50.50

BY PEGGY TAVARES
WEIGHED AT 28814 MISSION BLVD. • HAYWARD, CA
RECEIVED BY [Signature]
FOR CUSTOMER

R116831

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE. THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOR OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

DUPLICATE DELIVERY RECEIPT

WEIGHMASTER CERTIFICATE

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EAST BAY EXCAVATING CO. INC.

OFFICE LOCATED AT LA VISTA QUARRY
28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080
CONT. LIC. # 192897

DATE	TIME
FEB 27 91	13:07

CUSTOMER NAME		COMMODITY	
L. B. REED		AB3	
JOB DESCRIPTION		JOB NUMBER	
H B MEEKLAND		LBR1	
JOB LOCATION		LOAD #	TRUCK #
HAYWARD		6	3

DRIVER IN VEHICLE
GROSS TONS
13.50
TARE TONS
5.90
NET TONS
7.60

EAST BAY EXCAVATING CO., INC.
WEIGH MASTER TONS TODAY = 43.50

BY PEGGY TAVARES
WEIGHED AT 28814 MISSION BLVD. • HAYWARD, CA
RECEIVED BY [Signature]
FOR CUSTOMER

R116829

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE. THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOR OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

DUPLICATE DELIVERY RECEIPT

WEIGHMASTER CERTIFICATE

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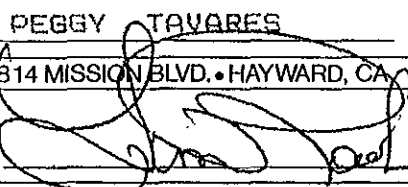

DATE	TIME
FEB 27 91	15:23

EAST BAY EXCAVATING CO. INC.
 OFFICE LOCATED AT LA VISTA QUARRY
 28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080
 CONT. LIC. # 192897

CUSTOMER NAME		COMMODITY	
L. B. REED		AB3	
JOB DESCRIPTION		JOB NUMBER	
H B MEEKLAND		LBRI	
JOB LOCATION		LOAD #	TRUCK #
HAYWARD		9	3

DRIVER IN VEHICLE
GROSS TONS
12.90
TARE TONS
5.90
NET TONS
7.00

EAST BAY EXCAVATING CO., INC.
 WEIGH MASTER TONS TODAY = 64.95

BY PEGGY TAVARES
 WEIGHED AT 28814 MISSION BLVD. • HAYWARD, CA
 RECEIVED BY 
 FOR CUSTOMER 

R116834

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE. THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOB OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

DUPLICATE DELIVERY RECEIPT

WEIGHMASTER CERTIFICATE

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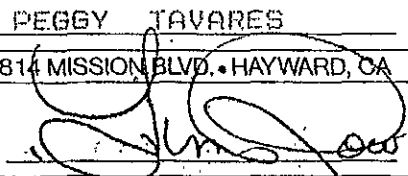

DATE	TIME
FEB 27 91	14:30

EAST BAY EXCAVATING CO. INC.
 OFFICE LOCATED AT LA VISTA QUARRY
 28814 MISSION BLVD. • HAYWARD, CALIFORNIA 94544 • (415) 538-5080
 CONT. LIC. # 192897

CUSTOMER NAME		COMMODITY	
L. B. REED		AB3	
JOB DESCRIPTION		JOB NUMBER	
H B MEEKLAND		LBRI	
JOB LOCATION		LOAD #	TRUCK #
HAYWARD		9	3

DRIVER IN VEHICLE
GROSS TONS
13.35
TARE TONS
5.90
NET TONS
7.45

EAST BAY EXCAVATING CO., INC.
 WEIGH MASTER TONS TODAY = 67.90

BY PEGGY TAVARES
 WEIGHED AT 28814 MISSION BLVD. • HAYWARD, CA
 RECEIVED BY 
 FOR CUSTOMER 

R116833

IT IS AGREED BETWEEN BUYER AND SELLER THAT SALE IS CONSUMMATED AND TITLE PASSED AT THE PLANT SITE. THE PRICE OF THIS MATERIAL HAS BEEN QUOTED FOB OUR PLANT, AND SUBJECT TO SALES TAX ON MATERIAL ONLY.

DUPLICATE DELIVERY RECEIPT

APPENDIX G.

GRADIENT CALCULATIONS

Monitoring Well elevations (MWe_x)

$$\text{MWe}_1 = 63.97 \text{ feet}$$

$$\text{MWe}_2 = 63.71 \text{ feet}$$

$$\text{MWe}_3 = 63.65 \text{ feet}$$

Depth to water (MWdtw_x)

$$\text{MWdtw}_1 = 35.95 \text{ feet}$$

$$\text{MWdtw}_2 = 35.69 \text{ feet}$$

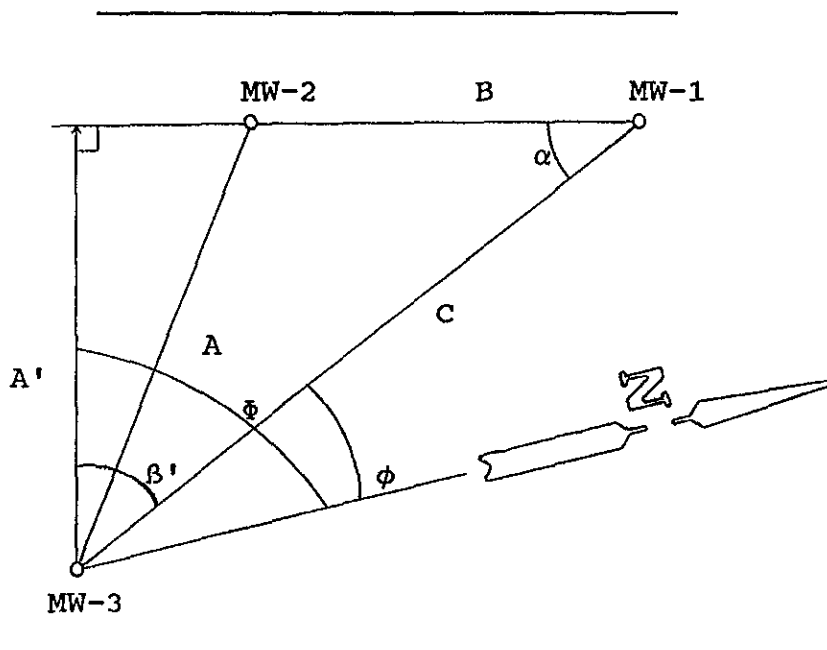
$$\text{MWdtw}_3 = 35.55 \text{ feet}$$

$$\text{MWe}_x - \text{MWdtw}_x = \text{WTh}_x \text{ (Water Table height above mean sea level)}$$

$$\text{WTh}_1 = 28.02 \text{ feet}$$

$$\text{WTh}_2 = 28.02 \text{ feet}$$

$$\text{WTh}_3 = 28.10 \text{ feet}$$



Let d = distance between two wells ($d_{x,y}$), and assign a unique letter to each side of a triangle whose sides are equal to a length d .

$$d_{2,3} = 27.3 \text{ feet} \equiv A$$

$$\implies$$

$$A^2 = 745.29$$

$$d_{1,2} = 25.8 \text{ feet} \equiv B$$

$$\implies$$

$$B^2 = 665.64$$

$$d_{1,3} = 40.6 \text{ feet} \equiv C$$

$$\implies$$

$$C^2 = 1,648.36$$

Let the angle between sides B and C be named alpha.

$$\angle B, C \equiv \alpha \quad \text{eqn. (1)}$$

$$\alpha = \arccos \left(\frac{B^2 + C^2 - A^2}{2BC} \right) \quad \text{eqn. (2)}$$

$$\underline{\alpha = 41.51^\circ}$$

$$A' \equiv C \sin \alpha \quad \text{eqn. (3)}$$

$$\underline{A' = 26.91 \text{ feet}}$$

Let Δh = the change of water level height along the length of A' .

$$\text{Gradient} \equiv \frac{\Delta h}{A'} = \frac{0.08 \text{ ft}}{26.91 \text{ ft}} = 0.003 \quad \text{eqn. (4)}$$

Let $\phi = \beta' + \phi :$

$$\beta' = 90^\circ - \alpha = 48.49^\circ$$

$$\phi = 16.7^\circ_{\text{measured}} \text{ (from site map)}$$

$$\underline{\phi = 65.2^\circ \equiv N65.2^\circ W}$$