

ALCO
HAZMAT

AZURE ENVIRONMENTAL

95 JAN 16 AM 8:00

January 12, 1995

STID 3932

AZ119-001

Susan L. Hugo
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Way Parkway, Suite 250
Alameda, California 94502-6577

Re: Monitoring Well Decommission Activities
Former Copper and Brass Sales Facility (STID 3932), Emeryville, CA

Dear Ms. Hugo:

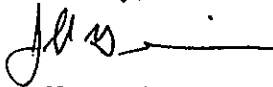
Per your request, this letter report is submitted to document the monitoring well decommission activities performed at the former Copper and Brass Sales facility at 1295 67th Street in Emeryville ("the Site"). The well was decommissioned in response your letter of Remedial Action Completion Certification for the Site dated October 6, 1994.

The location of decommissioned well MW-1 is shown on the attached Figure 1. The well decommission activities were conducted on December 2, 1994 by Gregg Drilling under the direct supervision of an Azure Environmental Registered Geologist. The well was decommissioned by pressure grouting in accordance with the Zone 7 Water Agency's well destruction requirements under Permit 94753 (see attached).

As required by the well destruction permit, cement grout was pumped into the well through a tremie pipe lowered to the bottom of the well. Upon removal of the tremie pipe from the well, a pressure hose was attached to the top of the well casing and pressure was induced to force the grout through the well screen into the surrounding sandpack. The grout-filled well casing was cut to approximately two feet below ground surface and the remaining hole backfilled with compacted soil.

Please call me at (415) 485-9740 should you have any questions regarding this report.

Sincerely,



Jeff Hennier, R.G.
Principal Hydrogeologist

Enclosure

cc: George Blandino, Copper and Brass Sales, Inc.



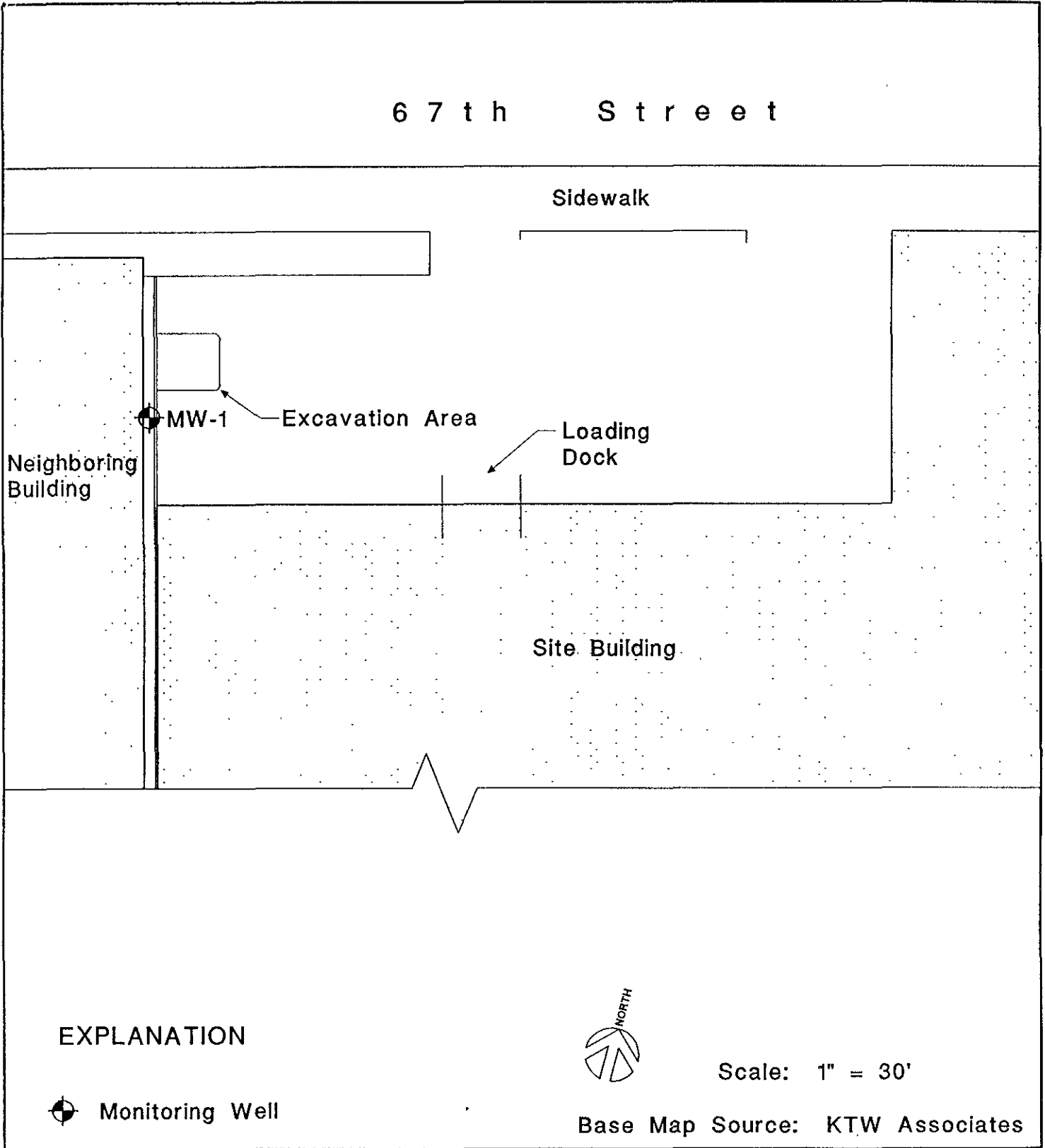


Figure 1: Site Plan



ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE

PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2000

FAX (510) 482-3014

Attenti: Wyman Hong

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT former Copper & Brass Sales facility
1295 67th Street
Emeryville, CA 94608

PERMIT NUMBER 94753
LOCATION NUMBER 1874W 15B80

CLIENT
Name Copper and Brass Sales
Address 1900 Embarcadero North Suite 107
City Oakland, CA Zip 94606
570/488-7212

PERMIT CONDITIONS

Circled Permit Requirements Apply

APPLICANT
Name Azusa Environmental
Alam: Jeff Henner Fax 415/485-6062
Address 1001 Lincoln Voice 415/485-9740
City San Rafael CA Zip 94901

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 90 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.

TYPE OF PROJECT

Well Construction	Geotechnical Investigation
Cathodic Protection	General
Water Supply	Contamination
Monitoring	Well Destruction <input checked="" type="checkbox"/>

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.

PROPOSED WATER SUPPLY WELL USE

Domestic	Industrial	Other
Municipal	Irrigation	

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.

DRILLING METHOD:

Mud Rotary _____ Air Rotary _____ Auger _____
Cable _____ Other pressure grout

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

DRILLER'S LICENSE NO. Gregg Drilling # 425165

E. WELL DESTRUCTION. See attached.

WELL PROJECTS see attached (-)

Drill Hole Diameter	<u>6</u> in.	Maximum
Casing Diameter	<u>2</u> in.	Depth <u>20</u> ft.
Surface Seal Depth	<u>4</u> ft.	Number <u>MW-1</u>

GEOTECHNICAL PROJECTS

Number of Borings	_____	Maximum
Hole Diameter	_____ in.	Depth _____ ft.

ESTIMATED STARTING DATE Dec. 2, 1994
ESTIMATED COMPLETION DATE " "

Approved

Wyman Hong
Wyman Hong

Date 28 Nov 94

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-88.

APPLICANT'S SIGNATURE [Signature] Date 11/17/94

28 November 1994

ZONE 7
WATER RESOURCES ENGINEERING
DRILLING ORDINANCE

COPPER AND BRASS
1295 - 67TH STREET
EMERYVILLE
WELL 1S/4W 15B80
PERMIT 94753

Destruction Requirements:

1. Clean out all bridged or poorly compacted materials to the bottom of the well.
2. Pressure grout the casing to 2 feet below finished grade or original ground, whichever is the lower elevation.
3. Remove casing, seal and gravel pack to 2 feet below finished grade or original ground, whichever is the lower elevation.
4. After the seal has set, backfill the remaining hole with compacted material.

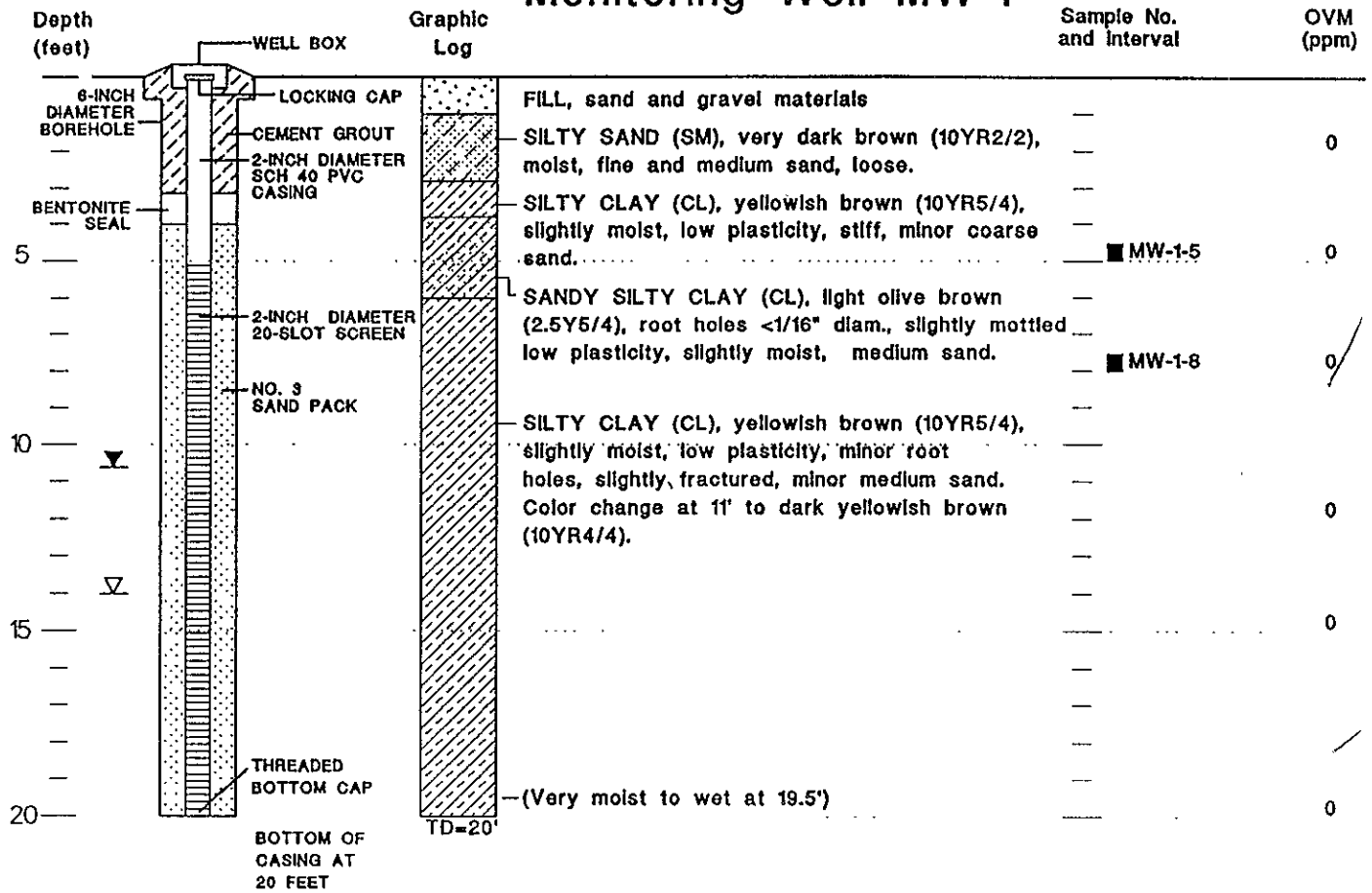
These destruction requirements as proposed by Jeff Hennier of Azure Environmental meet or exceed Zone 7 minimum requirements.

WELL CONSTRUCTION

LITHOLOGY

SAMPLE DATA

Monitoring Well MW-1



Explanation:



▽ Water level measured at time of drilling
 ▼ Water level measured on July 29, 1993

Drilling Method: HSA
 Sampling Method: Split spoon
 Drilling company: Gregg Drilling
 Driller: Mo

Permit No.: 93373
 Hydrogeologist: J. Hennier
 R.G. #4605

AZURE ENVIRONMENTAL

Figure B-2: Boring Lithology and Monitoring Well Construction

Project No. 119-001

July 16, 1993

Copper and Brass Sales Facility * Emeryville