



AUG E A S

July 11, 1995

Mr. Barney Chan
Hazardous Materials Specialist
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RE: Addendum to Draft Workplan for Additional Investigation at Young's Cleaners, 10700 MacArthur Boulevard, Oakland

By Facsimile and Priority Mail

Dear Mr. Chan:

Pursuant to our telephone conversation today, I am transmitting the following addendum to the July 6 draft Workplan for a site investigation at the above address. This addendum increases to two the number of proposed deep water bearing zone wells, and it modifies their locations. The number of the proposed shallow monitoring wells remains at two as in the July 6 draft. The attached figure shows the locations of all the existing monitoring wells of interest, and the approximate locations of the proposed monitoring wells on the Foothill Square property.

Rationale for Number and Locations of Deep Monitoring Wells

We propose that well AMW-8 be located as shown to investigate the quality of the deeper regional ground water in the inferred downgradient direction from the contaminant source at Young's Cleaners. In this location, we will construct the well through a permanent conductor casing to seal the shallow perched aquifer that occurs in this area at about 35 ft to 40 ft below surface grade (bsg) from the deep water bearing zone that we expect to encounter at about 50 feet bsg.

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780 PURISSIMA STREET HALF MOON BAY CA 94019 PHONE: 415.726.7700 FAX: 415.726.1217

If feasible, we propose a second deep aquifer well, AMW-9, in the covered pedestrian walkway, approximately as shown on the attached figure. The proposed location of this well is contingent on the following conditions:

- The walkway needs to be accessible to a drill rig large enough to install the well through the required conductor casing;
- The shallow ground water beneath the walkway should not be significantly contaminated with dry cleaning solvents. This will reduce the risk of cross contamination that will occur from using the conductor casing to seal off deeper ground water, which we wish to investigate, from contaminated shallow ground water.

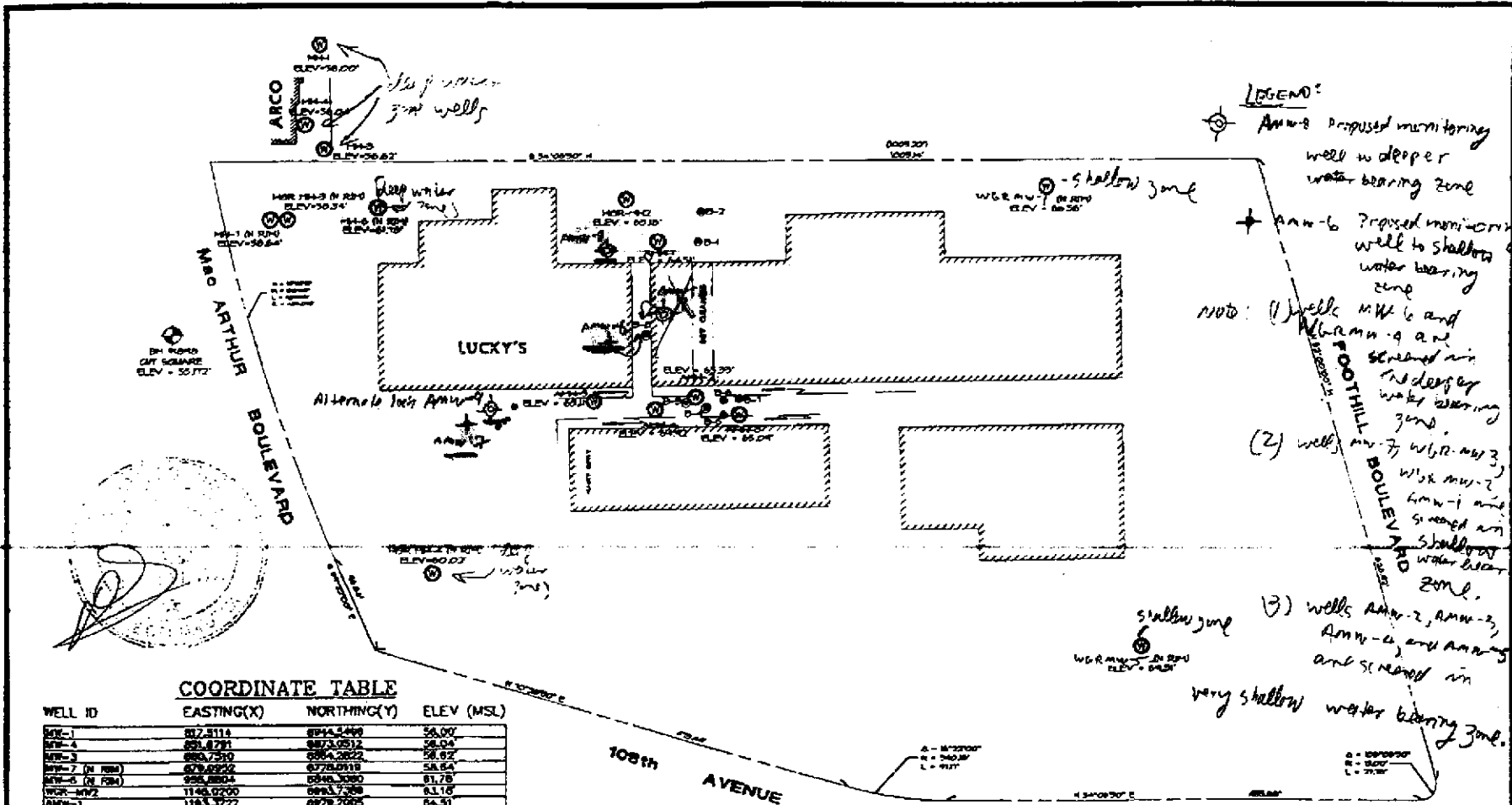
This proposed location for AMW-9 will provide data on the deeper regional ground water quality at a location near the original point of solvent release, inside the dry cleaner. Ground water depth information from wells AMW-8 and AMW-9, in conjunction with data from deep wells MW-6 and WGR MW-5, will also provide useful data on the gradient of the deep ground water beneath Foothill Square. We have proposed an alternate location for well AMW-9 near proposed shallow well AMW-7, as shown, if the first proposed location for AMW-9 appears to be impractical. This alternate location will also provide valuable data on the gradient and the potential contamination of the deeper ground water.

We can proceed with this investigation as soon as we have received approval for the proposed scope of work. Please call me at (415) 726-7700 if you have any questions or comments.

Sincerely,

Charles D. Conway, R.G.
Augeas Corporation

attachment
cc: client



COORDINATE TABLE

WELL ID	EASTING(X)	NORTHING(Y)	ELEV (MSL)
AMW-1	817.5114	8944.5499	56.00
AMW-4	825.8793	8973.0512	56.04
AMW-3	898.7390	8976.2622	56.92
AMW-7 (N R&B)	878.0292	8776.0118	58.64
AMW-6 (N R&B)	825.8804	8546.3280	61.78
WCR-AMW2	1146.0200	8683.7268	63.16
AMW-2	1183.3727	8679.7025	64.31
AMW-2	1312.5908	8677.8229	65.33
AMW-3	1358.7127	8886.9413	65.09
UNDERGROUND (N R&B)	1464.5458	7240.1977	68.58
UNDERGROUND (N R&B)	1869.9744	8631.7574	69.31
W-1	1225.0848	7031.9283	N/A
W-2	1210.8547	7026.7698	N/A
W-3	1307.8136	8667.8308	N/A
W-4	1328.8757	8674.8507	N/A
W-5	1344.7278	8309.0445	N/A
W-6	1338.1303	8661.3611	N/A
W-7	1347.8608	8661.0199	N/A
W-8	1238.2946	8696.7062	N/A
WCR MB-3 (N R&B)	867.6301	6792.3401	58.34
WCR MB-4 (N R&B)	1298.7733	8590.3651	60.02
AMW-4 (N R&B)	1298.0463	6944.7820	64.92
AMW-5 (N R&B)	1234.8377	6976.1177	63.13

GRAPHIC SCALE



(IN FEET)
1 inch = 100 ft

NOTE: BOUNDARY WAS OBTAINED FROM RECORD DATA.

NOTE: BENCHMARK CUT SQUARE IN CURB RETURN AT THE SOUTHEAST CORNER OF 107th AVE AND McARTHUR BLVD. ELEV = 55.172 MSL (USGS 1929)

NOTE: TO OBTAIN ELEVATION PER CITY DATUM, SUBTRACT 3.00 FEET FROM USGS' ELEVATION.

DATE	BY	SCALE	PROJECT	CHECKED BY	DATE
07/11/95	...	1"=100'

BOOTH CONSULTING INC.
 107141-7210 (415) 415-7210
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MONITORING WELLS
FOOTHILL SQUARE
 AUGUS CORPORATION

SHEET 1
OF 1
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