**PES Environmental, Inc.**
**Engineering & Environmental Services**

October 31, 1996

**241.0102.005**

Ms. Susan L. Hugo
Senior Hazardous Materials Specialist
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94501



**TRANSMITTAL**
**QUARTERLY MONITORING REPORT**
**THIRD QUARTER 1996**
**POWELL STREET PLAZA**
**AND SHELLMOUND III SITES**
**EMERYVILLE, CALIFORNIA**

Dear Ms. Hugo:

Enclosed is one copy of the above titled report prepared by PES Environmental, Inc. for the former partners of Eastshore Partners (Eastshore) for the Powell Street Plaza and Shellmound III sites, Emeryville, California,. This quarterly report presents results of groundwater elevation monitoring activities for the third quarter of 1996 at the Powell Street Plaza and Shellmound III sites.

Yours very truly,

**PES ENVIRONMENTAL, INC.**

Elizabeth Large
Staff Geologist

Enclosure: Quarterly Monitoring Report

cc: Mr. Thomas Gram
Mr. Thomas Graf, Geomatrix Consultants

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October 31, 1996



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Ms. Susan Hugo
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94501

**QUARTERLY WATER-LEVEL AND PRODUCT THICKNESS MEASUREMENTS POWELL STREET PLAZA AND SHELLMOUND III SITES EMERYVILLE, CALIFORNIA**

Dear Ms. Hugo:

This letter presents data collected by PES Environmental, Inc. (PES) during water-level and product thickness measurements at Powell Street Plaza and the adjacent Shellmound III properties in Emeryville, California, during the third quarter of 1996. PES collected the measurements on August 9, 1996, on behalf of the former partners of Eastshore Partners.

Depth-to-water and product thickness (where present) were measured in the monitoring wells and recorded to the nearest 0.01 foot using an electronic, dual-interface sounding probe. Depth-to-water measurements were converted to water-level elevations referenced to mean sea level (MSL) and corrected for displacement by free product (Table 1). To prevent cross-contamination between wells, the portion of the sounding probe and tape submerged in the well was cleaned with an alconox/deionized water solution and double-rinsed with deionized water between well measurements. Water-level elevations and product thickness measurements are listed in Table 1.

Monitoring wells PZ-1, MW-18, MW-19, MG-1, MG-2, MG-3, and MG-4 were covered by soil stockpiles or were inaccessible due to construction materials blocking access to the wells and therefore were not measured. Monitoring well MW-10 was damaged during road excavation activities and was not measured. Monitoring wells MW-4, MW-5, MW-7, MW-15, and MW-16 were abandoned during the North Interceptor relocation activities in accordance with Alameda County Flood Control District - Zone 7 well destruction permit conditions. Monitoring wells that were measured are shown on Plate 1.

The August 9, 1996 water-level elevations at the Powell Street Plaza and Shellmound III properties ranged from 0.95 to 5.19 feet mean sea level (MSL). Water-level elevations at the Powell Street Plaza property ranged from 0.44 feet higher (MW-8) to 0.46 feet lower

(MW-14) than water-level elevations measured on June 28, 1996. The August 9, 1996 water-level elevation for MG-7 on the Shellmound III property was 0.05 feet lower than the elevation recorded June 28, 1996. In summary, the water-level elevations observed at the Powell Street Plaza and Shellmound III properties on August 9, 1996 exhibit little change from measurements recorded on June 28, 1996. Water-level elevations and groundwater contours are illustrated on Plate 2.

We trust this is the information you require at this time. If you have any questions, please do not hesitate to contact the undersigned.

Yours very truly,

**PES ENVIRONMENTAL, INC.**

Elizabeth A. Large
Staff Geologist

Richard J. Hutton
Senior Environmental Specialist

cc: Mr. Thomas Gram
Mr. Thomas Graf, Geomatrix Consultants

# TABLE

# TABLE 1

## Water-Level Elevations and Product Thickness Measurements

Powell Street Plaza and Shellmound III Sites
Emeryville, California

| Well Number | Measurement Date | Top of Casing Elevation* (feet MSL) | Depth to Product (feet) | Depth to Water (feet) | Product Thickness (feet) | Water-Level Elevation (feet MSL) | Corrected W-L Elevation (feet MSL) |
|---|---|---|---|---|---|---|---|
| MW-1 | 8/9/96 | 8.72 | NP | 5.70 | | 3.02 | |
| MW-2 | 8/9/96 | 9.83 | NP | 6.84 | | 2.99 | |
| MW-3 | 8/9/96 | 10.86 | Trace | 8.12 | <0.01 | 2.74 | |
| MW-4 | --- | --- | --- | --- | | --- | |
| MW-5 | --- | --- | --- | --- | | --- | |
| MW-6 | 8/9/96 | 11.42 | NP | 8.02 | | 3.40 | |
| MW-7 | --- | --- | --- | --- | | --- | |
| MW-8 | 8/9/96 | 7.48 | NP | 5.79 | | 1.69 | |
| MW-9 | 8/9/96 | 7.50 | NP | 3.66 | | 3.84 | |
| MW-10 | 8/9/96 | 7.38 | NM | NM | | NM | |
| MW-11 | 8/9/96 | 11.89 | NP | 11.49 | | 0.40 | |
| MW-12 | 8/9/96 | 9.42 | Trace | 6.56 | <0.01 | 2.86 | |
| MW-13 | 8/9/96 | 10.83 | 5.63 | 5.70 | 0.07 | 5.13 | 5.19 |
| MW-14 | 8/9/96 | 11.74 | 6.85 | 6.91 | 0.06 | 4.83 | 4.88 |
| MW-15 | --- | --- | --- | --- | | --- | |
| MW-16 | --- | --- | --- | --- | | --- | |
| MW-18 | 8/9/96 | 6.21 | NM | NM | | NM | |
| MW-19 | 8/9/96 | 9.94 | NM | NM | | NM | |
| MG-1 | 8/9/96 | 11.82 | NM | NM | | NM | |
| MG-2 | 8/9/96 | 10.83 | NM | NM | | NM | |
| MG-3 | 8/9/96 | 9.76 | NM | NM | | NM | |
| MG-4 | 8/9/96 | 7.38 | NM | NM | | NM | |
| MG-7 | 8/9/96 | 13.10 | NP | 12.15 | | 0.95 | |
| PZ-1 | 8/9/96 | 7.99 | NM | NM | | NM | |

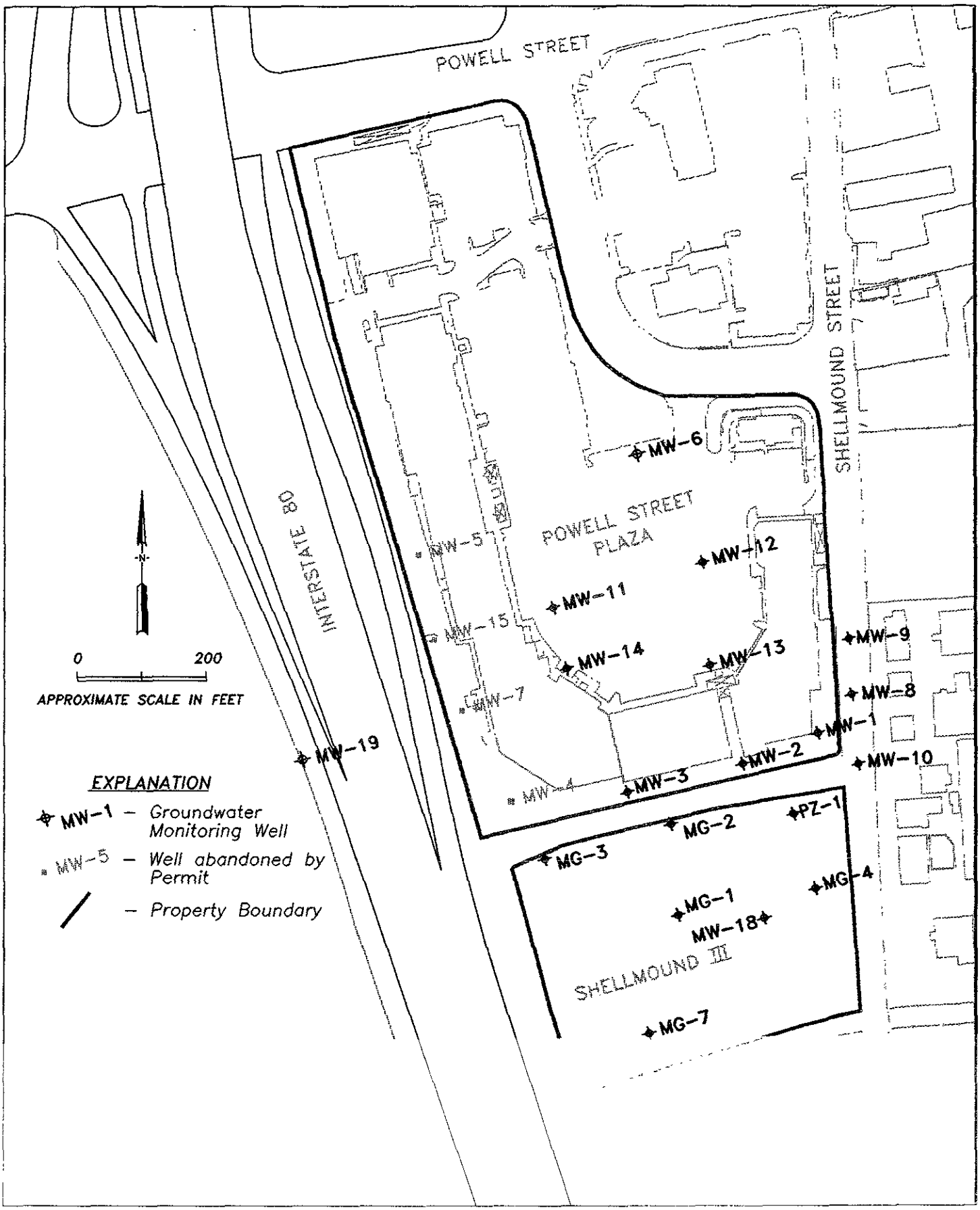
**Notes:**

* = Revised top of casing elevations based on December 27, 1994 and January 4, 1995 Kier & Wright survey.
NP = No free product observed
Trace = Slight residue on interface probe or other indication of free-product. Product thickness is less than 0.01 f
NM = Not measured
W-L = Water-Level
Corrected Water-Level Elevations were calculated as follows:

Water-Level Elevation = Top of Casing - Depth to Water + 0.85 x Product Thickness

Shaded wells have been abandoned.

# ILLUSTRATIONS

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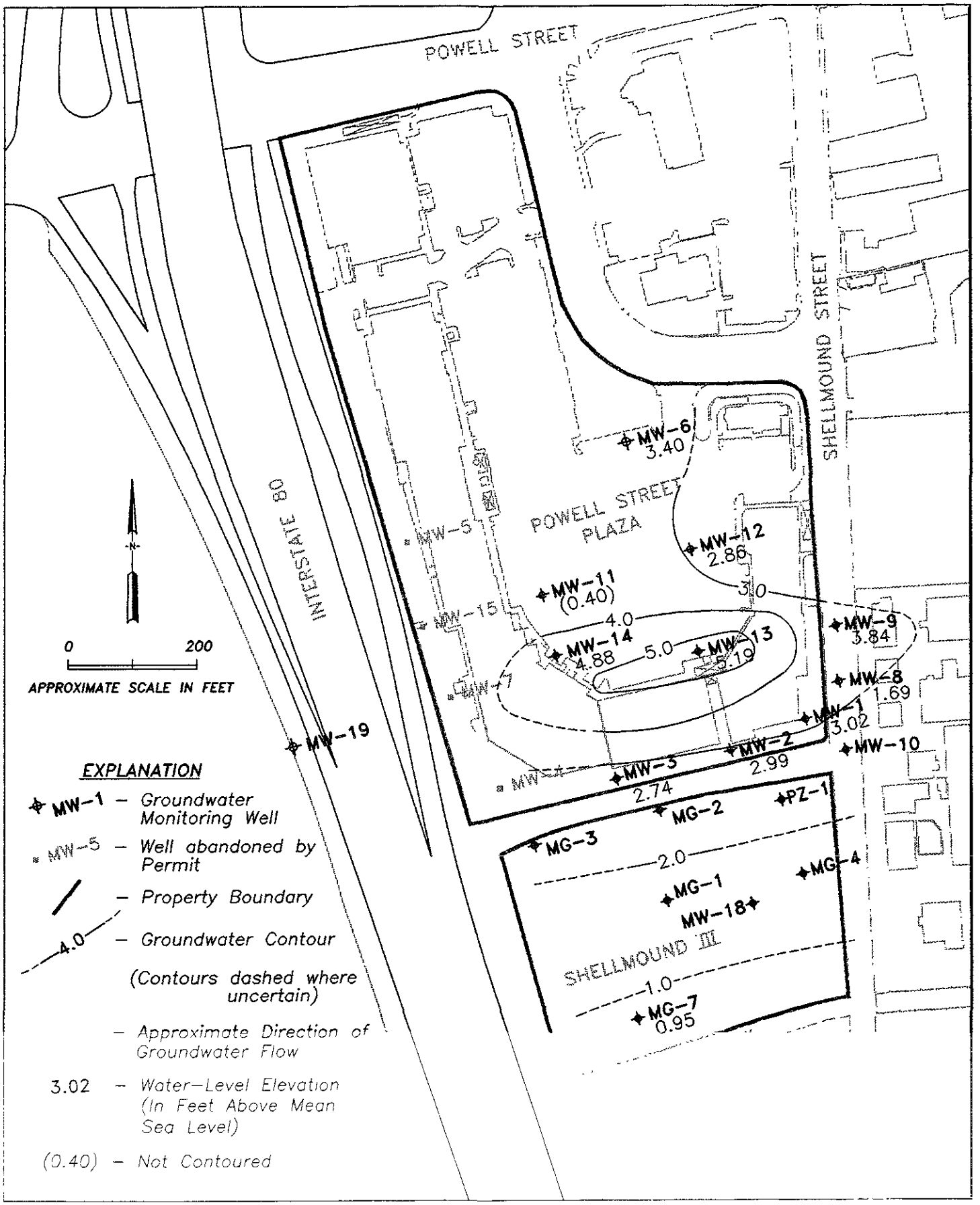
Site Plan
Powell Street Plaza and
Shellmound III Sites
Emeryville, California

PLATE
**1**

| 241.0102.005 | 0200510A | 10/96 |
|---|---|---|
| JOB NUMBER | DWG NUMBER | DATE |




PES Environmental, Inc.
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Groundwater Elevations on August 9, 1996
Powell Street Plaza and
Shellmound III Sites
Emeryville, California

PLATE 2

| 241.0102.005 | 020050_3 | 10/96 |
|---|---|---|
| JOB NUMBER | DWG NUMBER | DATE |