



September 19, 2001

UBS Asset Management, LLC
242 Trumbull Street
Hartford, CT 06103-1212

Attention: Mr. Jeffrey M. Fraulino
Director, Engineering and Environmental Services

Dear Mr. Fraulino:

Letter Report
Monitoring Well Abandonment
Powell Street Plaza
Emeryville, California

1.0 INTRODUCTION

URS Corporation (URS) is pleased to submit this letter report detailing the abandonment of the monitoring wells located at the Powell Street Plaza (PSP) in Emeryville, California. The Powell Street Plaza site is located at 5500 Eastshore Highway in Emeryville, California. It is bounded by Highway 80 (Eastshore) to the west, Powell Street to the North, Christie Avenue and Shellmound Street to the east, and the Courtyard by Marriott property to the south. The site covers approximately 13 acres and is located about 0.1 miles east of San Francisco Bay. The site is shown on the attached modified figure from PES Environmental.

2.0 BACKGROUND

The PSP site was occupied by Pacific Intermountain Express (PIE) Trucking from 1944 to 1986 and was used for truck maintenance and fueling. PIE installed and operated eight underground storage tanks (USTs) in the southwestern corner of the site. Blymer and Sons Engineers, Inc. removed these in July 1986, after Eastshore Partners purchased the site. In 1987, Powell Street Plaza was constructed and consists of approximately 160,000 square feet of retail stores, restaurants, and associated parking. The present owner purchased the property in February 1990.

URS Corporation
221 Main Street, Suite 600
San Francisco, CA 94105-1917
Tel: 415 890 8838
Fax: 415 882 9261

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UBS Brinson Realty Investors LLC

May 3, 2001

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Since 1986 several soil and groundwater investigations have been performed at the PSP site by Geomatrix, Groundwater Technology, Inc., Kaldveer & Associates, Alton Geoscience, and PES Environmental, Inc. The investigations involved numerous soil borings and test pits, from which samples of soil and groundwater were analyzed for petroleum hydrocarbons and associated compounds. The investigations also included the installation and monitoring of a network of groundwater monitoring wells. The investigation results included detection of petroleum hydrocarbons as diesel and motor oil, lead, polynuclear aromatic hydrocarbons (PAHs), and polychlorinated biphenyls (PCBs) in soil and groundwater samples and the presence of free-phase diesel was observed on the groundwater.

The removal of the USTs in 1986 included the excavation and on-site treatment of approximately 7,000 cubic yards of impacted soil. The treated soil was used to backfill part of the excavation. In late 1988, two groundwater/product extraction trenches and a bio-treatment system were installed in the southwestern corner of the site. The system was operated for 15 months, beginning in March 1989. During that time 800 gallons of petroleum product were removed and 1.3 million gallons of groundwater were treated and discharged to the EBMUD sanitary sewer system. The equipment was removed from the site in late 1990.

In November 1993, PES installed two passive product recovery skimmers in existing wells to remove the remaining petroleum product. Approximately 1.2 gallons of petroleum hydrocarbon product were removed between the date of installation and September 1994. Data collected by PES from periodic sampling of the monitoring wells indicated the volume of petroleum product in monitoring wells continued to decrease. The last ground water sampling event occurred in June 1997. In October 1997 Alameda County Health Care Services Agency issued a conditional closure letter for the site.

3.0 SCOPE OF WORK

The following scope of work was undertaken for the abandonment of the monitoring wells on the PSP site:

- Permits applications for the abandonment of the monitoring wells were submitted to the Alameda County Public Works Agency, Water Resources Section. Copies of the abandonment permits are contained in Appendix A of this document;

UBS Brinson Realty Investors LLC

May 3, 2001

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- Prior to mobilizing to the field a site reconnaissance was conducted to locate the monitoring wells and secure the working area. The monitoring wells that were abandoned are shown on the figure in Attachment A of this document;
- Monitoring well abandonment consisted of pressure grouting the wells. Pressure grouting operations were conducted by Precision Sampling, Inc. (Precision) of Richmond, California. Precision is a California State licensed well driller (C 57-636387). The pressure grouting procedure entailed evacuating the standing water in the well and then applying grout under a pressure of 25 pounds per square-inch (psi) and holding the pressure at 25 psi for 5 minutes.
- After the pressure grouting was completed and the mixture set up, the well completion box was removed along with the upper three feet of the well casing. After removal a concrete seal was then poured and the surface completed with asphalt;
- All liquid wastes generated from evacuating the wells prior to grouting were contained in a DOT approved 55-gallon drum and stored on site. The liquid wastes were removed from the site by American Valley Waste Oil, Inc. for recycling. The waste was disposed of as a "Oily Water, Non RCRA Hazardous Waste" under Manifest number 2139108.
- Prepared this report detailing the results of the well abandonment for submittal to Alameda County Environmental Health Services.

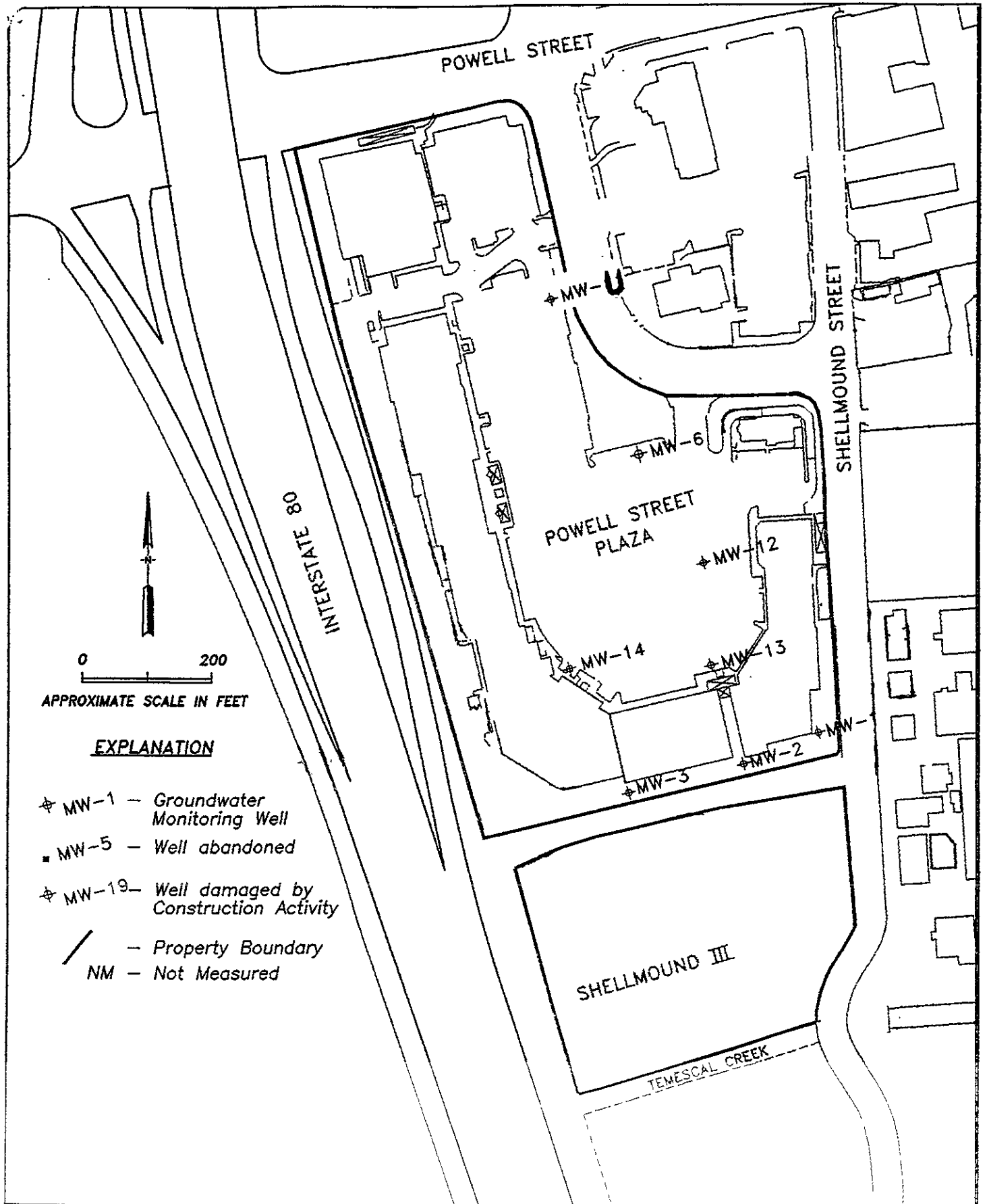
If you have any questions regarding the contents of this letter report please do not hesitate to contact me at (415) 243-3845.

Very truly yours,

URS Corporation



Erik Skov
Senior Geologist



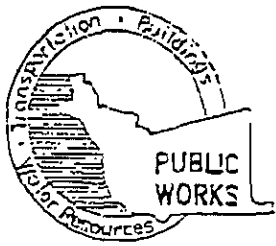
PES Environmental, Inc.
Engineering & Environmental Services

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

PLATE

1





ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-5554
FAX (510) 782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 5720 - 5795 Christie Avenue, Emeryville, CA

California Coordinates Source _____ ft. Accuracy ± _____ ft.
CCN _____ R. CCE _____ ft.
APN _____

CLIENT Name URS Brinson
Address 455 Market St Phone 415 538 4400
City San Francisco Zip 94105

APPLICANT Name URS Corporation
Address 221 Main St, 6th floor Phone 415 976-5858
City San Francisco Zip 94105

TYPE OF PROJECT

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

PROPOSED WATER SUPPLY WELL USE

- | | | | |
|--------------|--------------------------|----------------------|--------------------------|
| New Domestic | <input type="checkbox"/> | Replacement Domestic | <input type="checkbox"/> |
| Municipal | <input type="checkbox"/> | Irrigation | <input type="checkbox"/> |
| Industrial | <input type="checkbox"/> | Other _____ | <input type="checkbox"/> |

DRILLING METHOD:

- | | | | | | |
|------------|--------------------------|------------|-------------------------------------|-------|--------------------------|
| Mud Rotary | <input type="checkbox"/> | Air Rotary | <input type="checkbox"/> | Auger | <input type="checkbox"/> |
| Cable | <input type="checkbox"/> | Other | <input checked="" type="checkbox"/> | | |

DRILLER'S LICENSE NO. C-57-1210387

WELL PROJECTS

Drill Hole Diameter _____ in. Maximum _____
Casing Diameter _____ in. Depth _____ ft.
Surface Seal Depth _____ ft. Number MW-1

GEOTECHNICAL PROJECTS

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

ESTIMATED STARTING DATE 6/28/01
ESTIMATED COMPLETION DATE 6/29/01

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-63.

APPLICANT'S SIGNATURE [Signature] DATE 6/22/01

FOR OFFICE USE

PERMIT NUMBER WOJ-514
WELL NUMBER MW-1
APN _____

PERMIT CONDITIONS

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS

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.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

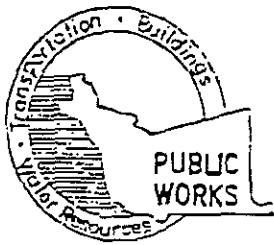
F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED [Signature] DATE 6-22-01



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
199 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-5554
FAX (510)782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 5720 - 5795 Christie
Avenue, Emeryville, CA

PERMIT NUMBER W01-515
WELL NUMBER MW-2
APN _____

California Coordinates Source _____ ft. Accuracy ± _____ ft.
CCN _____ ft. CCE _____ ft.
APN _____

CLIENT
Name URS Brinson
Address 455 Market St Phone 415 538 4400
City San Francisco Zip 94105

APPLICANT
Name URS Corporation Fax 415 863-9261
Address 221 Main St, S.F. CA 94102 Phone 415 896-5858
City San Francisco Zip 94105

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

PROPOSED WATER SUPPLY WELL USE
New Domestic Replacement Domestic
Municipal Irrigation
Industrial Other _____

DRILLING METHOD:
Mud Rotary Air Rotary Auger
Cable Other

DRILLER'S LICENSE NO. C57-1210387

WELL PROJECTS
Drill Hole Diameter _____ in. Maximum _____
Casing Diameter _____ in. Depth _____ ft.
Surface Seal Depth _____ ft. Number MW-2

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

ESTIMATED STARTING DATE 6/25/01
ESTIMATED COMPLETION DATE 6/29/01

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-43.
APPLICANT'S SIGNATURE [Signature] DATE 6/22/01

PERMIT CONDITIONS

- (A) GENERAL
 1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
 2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
 3. Permit is void if project not begun within 90 days of approval date.
- B. WATER SUPPLY WELLS
 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.
- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
- D. GEOTECHNICAL

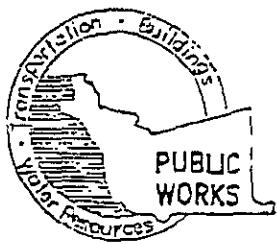
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.
- E. CATHODIC

Fill hole anode zone with concrete placed by tremie.
- F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.
- G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations

APPROVED [Signature] DATE 6-27-01



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-5554
FAX (510) 782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 5700 - 5795 Christie Avenue, Fremont, CA

PERMIT NUMBER W01-516
WELL NUMBER MW-3
APN _____

California Coordinates Source _____ ft. Accuracy ± _____ ft.
CCN _____ ft. CCE _____ ft.
APN _____

CLIENT Name URS Brinson
Address 455 Market St Phone 415 538 4400
City San Francisco Zip 94105

APPLICANT Name URS Corporation
Address 22 Main St, 5th Fl Phone 415 976-5358
City San Francisco Zip 94105

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

PROPOSED WATER SUPPLY WELL USE
New Domestic Replacement Domestic
Municipal Irrigation
Industrial Other _____

DRILLING METHOD:
Mud Rotary Air Rotary Auger
Cable Other

DRILLER'S LICENSE NO. C57-1210387

WELL PROJECTS
Drill Hole Diameter _____ in. Maximum _____ ft.
Casing Diameter _____ in. Depth _____ ft.
Surface Seal Depth _____ ft. Number MW-3

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

ESTIMATED STARTING DATE 6/28/01
ESTIMATED COMPLETION DATE 7/29/01

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

APPLICANT'S SIGNATURE [Signature] DATE 6/22/01

PERMIT CONDITIONS

- (A) GENERAL
 1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
 2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
 3. Permit is void if project not begun within 90 days of approval date.
- B. WATER SUPPLY WELLS
 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.
- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
- D. GEOTECHNICAL

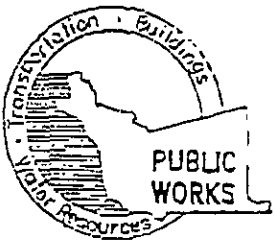
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.
- E. CATHODIC

Fill hole anode zone with concrete placed by tremie.
- (F) WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.
- G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED [Signature] DATE 6-22-01



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-5554
FAX (510)782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 5700 - 5795 Christie Avenue, Emeryville, CA

PERMIT NUMBER WP-1-517
WELL NUMBER MW-6
APN _____

California Coordinates Source _____ ft. Accuracy ± _____ ft.
CCN _____ ft. CCE _____ ft.
APN _____

CLIENT Name URS Brinson
Address 455 Market St Phone 415 538 4400
City San Francisco Zip 94105

APPLICANT Name URS Corporation
Address 271 Main St, 5th Floor Phone 415 896-5838
City San Francisco Zip 94105

TYPE OF PROJECT

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

PROPOSED WATER SUPPLY WELL USE

- | | | | |
|--------------|--------------------------|----------------------|--------------------------|
| New Domestic | <input type="checkbox"/> | Replacement Domestic | <input type="checkbox"/> |
| Municipal | <input type="checkbox"/> | Irrigation | <input type="checkbox"/> |
| Industrial | <input type="checkbox"/> | Other | <input type="checkbox"/> |

DRILLING METHOD:

- | | | | | | |
|------------|--------------------------|------------|-------------------------------------|-------|--------------------------|
| Mud Rotary | <input type="checkbox"/> | Air Rotary | <input type="checkbox"/> | Auger | <input type="checkbox"/> |
| Cable | <input type="checkbox"/> | Other | <input checked="" type="checkbox"/> | | |

DRILLER'S LICENSE NO. C57-1230387

WELL PROJECTS

Drill Hole Diameter _____ in.	Maximum _____
Casing Diameter _____ in.	Depth _____ ft.
Surface Seal Depth _____ ft.	Number <u>MW14</u>

GEOTECHNICAL PROJECTS

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

ESTIMATED STARTING DATE 6/28/01
ESTIMATED COMPLETION DATE 7/29/01

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

APPLICANT'S SIGNATURE [Signature] DATE 6/22/01

PERMIT CONDITIONS

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS

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.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

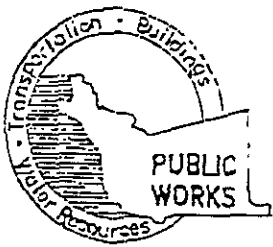
F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED [Signature] DATE 6-20-01



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-5554
FAX (510) 782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 5720 - 5795 Christie Avenue, Emeryville, CA

California Coordinates Source _____ ft. Accuracy \pm _____ ft.
CCH _____ ft. CCR _____ ft.
APN _____

CLIENT Name URS Brinson
Address 455 Market St Phone 415 538 4800
City San Francisco Zip 94105

APPLICANT Name URS Corporation
Address 221 Union St, 5th Floor Phone 415 976-5858
City San Francisco Zip 94105

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

PROPOSED WATER SUPPLY WELL USE
New Domestic Replacement Domestic
Municipal Irrigation
Industrial Other _____

DRILLING METHOD:
Mud Rotary Air Rotary Auger
Cable Other

DRILLER'S LICENSE NO. C57-1210387

WELL PROJECTS
Drill Hole Diameter _____ in. Maximum _____
Casing Diameter _____ in. Depth _____ ft.
Surface Seal Depth _____ ft. Number MW13

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

ESTIMATED STARTING DATE 6/23/01
ESTIMATED COMPLETION DATE 6/23/01

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-43.

APPLICANT'S SIGNATURE [Signature] DATE 6/22/01

FOR OFFICE USE

PERMIT NUMBER W01-518
WELL NUMBER MW-12
APN _____

PERMIT CONDITIONS

- A. GENERAL
 1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
 2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
 3. Permit is void if project not begun within 90 days of approval date.
- B. WATER SUPPLY WELLS
 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.
- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
- D. GEOTECHNICAL

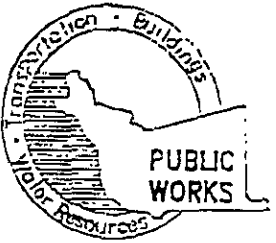
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.
- E. CATHODIC

Fill hole anode zone with concrete placed by tremie.
- F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.
- G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED [Signature] DATE 6-27-01



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-5554
FAX (510)782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 5320 - 5395 Christie Avenue, Emeryville, CA

PERMIT NUMBER W01-519
WELL NUMBER MW-13
APN _____

California Coordinates Source _____ ft. Accuracy ± _____ ft.
CCH _____ ft. CCE _____ ft.
APN _____

PERMIT CONDITIONS

CLIENT Name URS Brinson
Address 455 Market St Phone 415 538 4400
City San Francisco Zip 94105

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

APPLICANT Name URS Corporation
Address 221 Main St, 5th Floor Fax 415 423-9261
City San Francisco Phone 415 996-5858
Zip 94105

B. WATER SUPPLY WELLS

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.

TYPE OF PROJECT

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

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

PROPOSED WATER SUPPLY WELL USE

- | | | | |
|--------------|--------------------------|----------------------|--------------------------|
| New Domestic | <input type="checkbox"/> | Replacement Domestic | <input type="checkbox"/> |
| Municipal | <input type="checkbox"/> | Irrigation | <input type="checkbox"/> |
| Industrial | <input type="checkbox"/> | Other | <input type="checkbox"/> |

D. GEOTECHNICAL

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

DRILLING METHOD:

- | | | | | | |
|------------|--------------------------|------------|-------------------------------------|-------|--------------------------|
| Mud Rotary | <input type="checkbox"/> | Air Rotary | <input type="checkbox"/> | Auger | <input type="checkbox"/> |
| Cable | <input type="checkbox"/> | Other | <input checked="" type="checkbox"/> | | |

E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

DRILLER'S LICENSE NO. C57-1210387

F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

WELL PROJECTS

Drill Hole Diameter _____ in. Maximum _____ ft.
Casing Diameter _____ in. Depth _____ ft.
Surface Seal Depth _____ ft. Number MW-6

G. SPECIAL CONDITIONS

GEOTECHNICAL PROJECTS

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

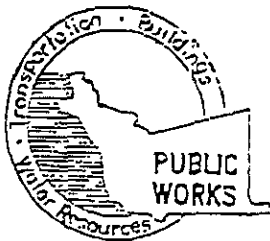
NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

ESTIMATED STARTING DATE 6/28/01
ESTIMATED COMPLETION DATE 6/29/01

APPROVED _____ DATE 6-27-01

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

APPLICANT'S SIGNATURE [Signature] DATE 6/27/01



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-5554
FAX (510) 782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 5720 - 5795 Christie Avenue, Emeryville, CA

California Coordinates Source _____ ft. Accuracy ± _____ ft.
CGH _____ ft. CCE _____ ft.
APN _____

CLIENT Name URS Brinson
Address 455 Market St Phone 415 538 4400
City San Francisco Zip 94105

APPLICANT Name URS Corporation Fax 415 862-9261
Address 221 Main St, 5th Floor Phone 415 976-5058
City San Francisco Zip 94105

TYPE OF PROJECT

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

PROPOSED WATER SUPPLY WELL USE

- | | | | |
|--------------|--------------------------|----------------------|--------------------------|
| New Domestic | <input type="checkbox"/> | Replacement Domestic | <input type="checkbox"/> |
| Municipal | <input type="checkbox"/> | Irrigation | <input type="checkbox"/> |
| Industrial | <input type="checkbox"/> | Other _____ | <input type="checkbox"/> |

DRILLING METHOD:

- | | | | | | |
|------------|--------------------------|------------|-------------------------------------|-------|--------------------------|
| Mud Rotary | <input type="checkbox"/> | Air Rotary | <input type="checkbox"/> | Auger | <input type="checkbox"/> |
| Cable | <input type="checkbox"/> | Other | <input checked="" type="checkbox"/> | | |

DRILLER'S LICENSE NO. C57-1210387

WELL PROJECTS

Drill Hole Diameter _____ in. Maximum _____
Casing Diameter _____ in. Depth _____ ft.
Surface Seal Depth _____ ft. Number MW/2

GEOTECHNICAL PROJECTS

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

ESTIMATED STARTING DATE 6/28/01

ESTIMATED COMPLETION DATE 6/29/01

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

APPLICANT'S SIGNATURE [Signature] DATE 6/22/01

FOR OFFICE USE

PERMIT NUMBER W01-520
WELL NUMBER MW-#
APN _____

PERMIT CONDITIONS

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS

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.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

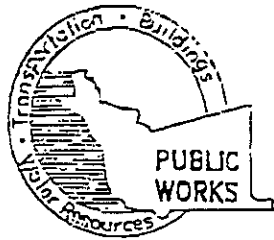
F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED [Signature] DATE 6-27-01



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. RAYWARD CA. 94544-1395
PHONE (510) 670-5554
FAX (510)782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 5720 - 5795 Christie Avenue, Emeryville, CA

California Coordinates Source _____ ft. Accuracy ± _____ ft.
CCN _____ ft. CCE _____ ft.
APN _____

CLIENT Name URS Brinson
Address 455 Market St Phone 415 538 4800
City San Francisco Zip 94105

APPLICANT Name URS Corporation Fax 415 823-9261
Address 221 Main St, 5th Floor Phone 415 896-5858
City San Francisco Zip 94105

TYPE OF PROJECT

Well Construction Geotechnical Investigation
Cathodic Protection General
Water Supply Contamination
Monitoring Well Destruction

PROPOSED WATER SUPPLY WELL USE

New Domestic Replacement Domestic
Municipal Irrigation
Industrial Other _____

DRILLING METHOD:

Mud Rotary Air Rotary Auger
Cable Other

DRILLER'S LICENSE NO. C57-1210387

WELL PROJECTS

Drill Hole Diameter _____ in. Maximum _____
Casing Diameter _____ in. Depth _____ ft.
Surface Seal Depth _____ ft. Number MW-0

GEOTECHNICAL PROJECTS

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

ESTIMATED STARTING DATE 6/28/01

ESTIMATED COMPLETION DATE 6/29/01

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

APPLICANT'S SIGNATURE [Signature] DATE 6/22/01

FOR OFFICE USE

PERMIT NUMBER W101-521
WELL NUMBER MW-0
APN _____

PERMIT CONDITIONS

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS

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.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED [Signature] DATE 6-22-01