ALAMEDA COUNTY
**HEALTH CARE SERVICES**
AGENCY
DAVID J. KEARS, Agency Director

RO#972

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION (LOP)
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

**REMEDIAL ACTION COMPLETION CERTIFICATION**

**StID 4111 - 6841 Village Parkway, Dublin, CA**
**(1-4,000 gallon diesel tank removed in December 17, 1992)**

March 3, 1997

Mr. Larry Brown
Interstate Brands Corp
1324 Arden Way
Sacramento, CA 95815

Dear Mr. Brown:

This letter confirms the completion of site investigation and remedial action for the underground storage tank(s) formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tanks are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, Section 2721(e) of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung, Director

enclosure

cc: Chief, Division of Environmental Protection
Kevin Graves, RWQCB
Lori Casias, SWRCB (with attachment)
Cheryl Gordon, UST Cleanup Fund
Jay Kamine, WCC, 10370 Old Placerville Rd, Suite 104, Sacramento, CA 95827-2505
files-ec (contbake.6)

01-1169

# CASE CLOSURE SUMMARY
## Leaking Underground Fuel Storage Tank Program

**I. AGENCY INFORMATION** **Date: July 18, 1996**

Agency name: **Alameda County-HazMat** Address: **1131 Harbor Bay Pkwy**
City/State/Zip: **Alameda, CA 94502** Phone: **(510) 567-6700**
Responsible staff person: **Eva Chu** Title: **Hazardous Materials Spec.**

**II. CASE INFORMATION**

Site facility name: **Continental Baking Co.**
Site facility address: **6841 Village Parkway, Dublin 94568**
RB LUSTIS Case No: **N/A** Local Case No./LOP Case No.: **4111**
URF filing date: **9/24/93** SWEEPS No: **N/A**

| Responsible Parties: | Addresses: | Phone Numbers: |
|---|---|---|
| **Interstate Brands Corp**<br>**Attn. Larry Brown** | **1324 Arden Way**<br>**Sacramento, CA 95815** | **916/929-9121** |

| Tank No: | Size in gal.: | Contents: | Closed in-place or removed?: | Date: |
|---|---|---|---|---|
| 1 | 4,000 | Diesel | Removed | 12/17/92 |

**III. RELEASE AND SITE CHARACTERIZATION INFORMATION**

Cause and type of release: **Unknown**
Site characterization complete? **YES**
Date approved by oversight agency: **2/6/95**
Monitoring Wells installed? **Yes** Number: **3**
Proper screened interval? **Yes, 5 to 18'**
Highest GW depth below ground surface: **5.56'** Lowest depth: **12.03'**
Flow direction: **No obvious pattern, relatively flat gradient**
Most sensitive current use: **Commercial**
Are drinking water wells affected? **No** Aquifer name: **Dublin Subbasin**
Is surface water affected? **No** Nearest affected SW name: **NA**
Off-site beneficial use impacts (addresses/locations): **None**

Report(s) on file? **YES** Where is report(s) filed? **Alameda County**
**1131 Harbor Bay Pkwy**
**Alameda, CA 94502**

**Treatment and Disposal of Affected Material:**

| Material | Amount (include units) | Action (Treatment or Disposal w/destination) | Date |
|---|---|---|---|
| Tank Piping | 1 UST | Erickson, Richmond | 12/17/92 |
| Free Product | 150 gal sludge | Gibson Environmental Redwood City | 12/17/92 |
| Soil | 54 cy | Forward L.F., Manteca | 10/19/93 |

**Maximum Documented Contaminant Concentrations - - Before and After Cleanup**

| Contaminant | Soil (ppm) Before[1] | Soil (ppm) After[2] | Water (ppb) Before | Water (ppb) After |
|---|---|---|---|---|
| TPH (Diesel) | 2,200 | 3,100 | 240 | 600 |
| Benzene | ND | ND | 0.56 | ND |
| Toluene | ND | .11 | ND | ND |
| Ethylbenzene | .088 | .35 | ND | ND |
| Xylenes | .060 | 3.1 | 1.56 | ND |
| Heavy metals | Organic Pb | ND | | |
| Other | 8270 - bis(2-ethylhexyl)phthalate | | | 44 |
| | butylbenzyl phthalate | | | 11 |

NOTE: 1 Soil sample collected from tank pit excavation bottom
2 soil sample collected from boring MW-1 at 11.5 to 12' bgs

**Comments (Depth of Remediation, etc.):**

**See Section VII, Additional Comments, etc...**

**IV. CLOSURE**

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? **Undetermined**
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? **Undetermined**
Does corrective action protect public health for current land use? **YES**
Site management requirements: **None**
Should corrective action be reviewed if land use changes? **YES**
Monitoring wells Decommissioned: **0, pending site closure**
Number Decommissioned: 0 Number Retained: 3
List enforcement actions taken: **None**
List enforcement actions rescinded: **NA**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Eva Chu Title: Haz Mat Specialist

Signature: Eva Chu Date: 7/25/96

Reviewed by

Name: Madhulla Logan Title: Haz Mat Specialist

Signature: Madhulla L Date: 7/22/96

Name: Thomas Peacock Title: Supervisor

Signature: Thomas Peacock Date: 7-18-96

VI. RWQCB NOTIFICATION

Date Submitted to RB: 7/26/96 RB Response: Approved

RWQCB Staff Name: Kevin Graves Title: AWRCE

Signature: Kevin Graves Date: 8/12/96

VII. ADDITIONAL COMMENTS, DATA, ETC.

When a 4K diesel UST was removed in December 17, 1992 soil samples collected from the bottom of the excavation at 10.5' depth exhibited up to 2,200 ppm TPH-D and low levels of BTEX. Overexcavation was not performed. The pit was filled with clean, imported material and resurfaced with asphalt. (See Fig 1 and 2, Table 1)

To delineate the extent of soil and groundwater contamination, four soil borings were advanced (boring MW-1 and MW-2 were within 10' of the UST pit, SB-1 was through the former dispenser island, and MW-3 was further downgradient of the former tank pit) of which three were completed as monitoring wells MW-1 through MW-3. Soil collected from boring MW-1 at 11.5' bgs contained 3,100 ppm TPHd, and soil from boring MW-2 at 9' bgs contained 1,100 ppm TPHd. The soil sample from beneath the dispenser revealed 1,200 ppm TPH-D at 6.5'bgs and 720 ppm TPH-D at 10.5' depth. Groundwater was first encountered at approximately 13' bgs and stabilized at about 10' bgs. (See Fig 3, Table 2)

Groundwater has been sampled for five consecutive quarters (March 1994 to March 1995) and has detected low levels of TPH-D (up to 600 ppb) in wells MW-1 and MW-2. BTEX, however, has not been detected. In the March 1995 sampling event, groundwater was also analyzed for semi-volatile compounds. 44 ppb bis(2-ethylhexyl)phthalate and 11 ppb butlybenzly phthalate were detected. However, phthalates are common laboratory contaminants, and may not indicated groundwater contamination. Also, in this latest sampling event the diesel concentration appears to have increased from ~200 ppb to

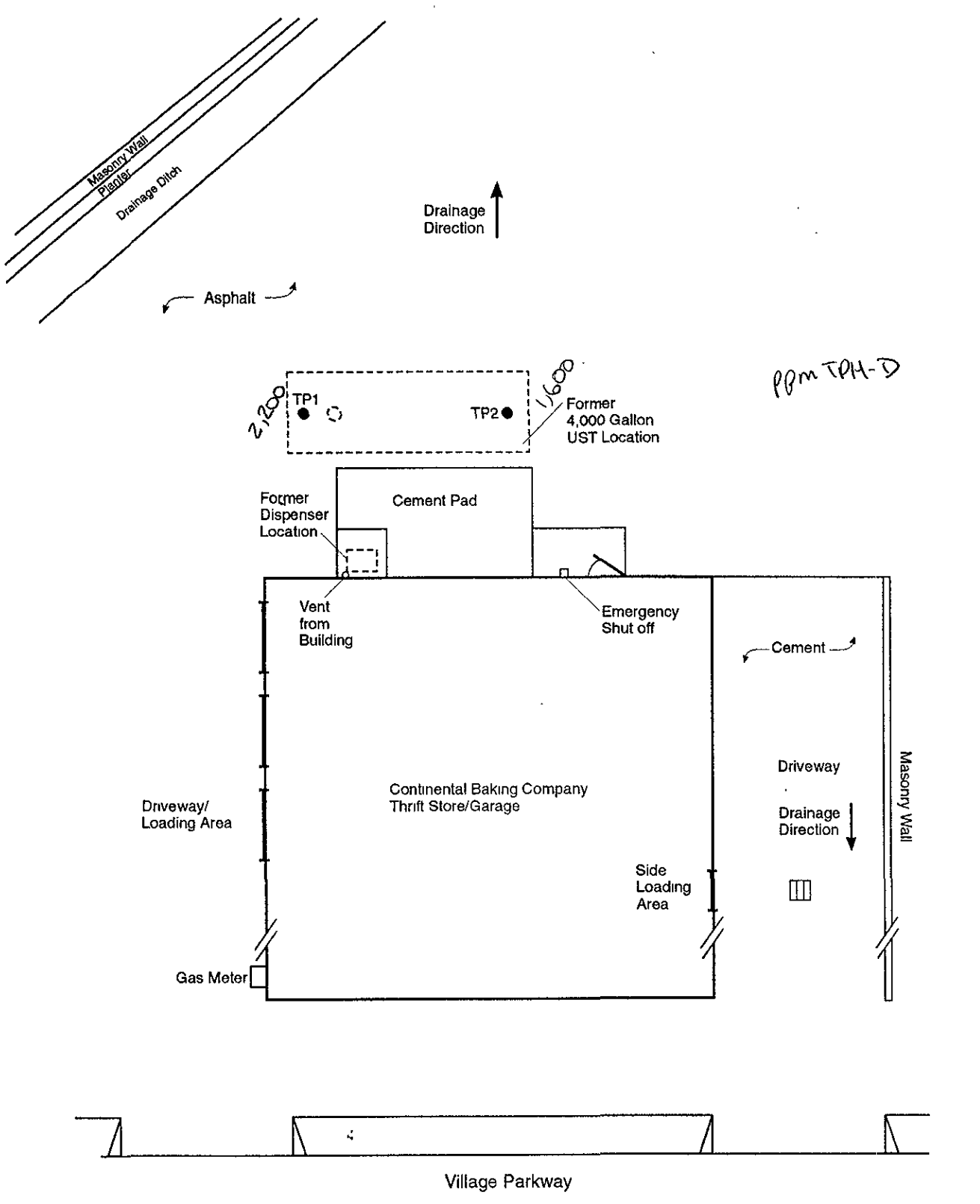
600 ppb. This increase is probably due to the rising groundwater into the unsaturated zone where residual diesel in soil dissolved into water. (See Table 3 and 4)

Groundwater elevation data has been collected from 11 monitoring events, from March 1994 to March 1994 and a consistent groundwater flow direction could not be determined. Flow direction has ranged from the south to northeast, and may be influenced by the drainage ditch, which borders the north end of the site. The most frequent flow direction noted is to the northwest. Gradient is generally flat (.001 to .003 ft/ft). (See Fig 3 and Table 4)

Sediments beneath the site consists of sandy clay to approximately 7' depth and silty and/or clayey sands from 7 to 18' depth. Silty clays were observed at 9 to 13' bgs in boring MW-2, and at 9 to 10.5' bgs (end of boring) in boring SB-1. (See Boring logs)

Migration of residual diesel in silty and/or clayey sand and silty clay sediments at approximately 9 to 14' bgs is likely to be limited in extent. This has been demonstrated since groundwater does not appear to be significantly impacted by the fuel release. Because of the absence of BTEX and PNAs in groundwater, continued groundwater sampling is not warranted.


| Project No. 92CB037 | Continental Baking Company 6841 Village Parkway Dublin, California | SITE LOCATION | Figure 1 |
|---|---|---|---|
| **Woodward-Clyde Consultants** | | | |



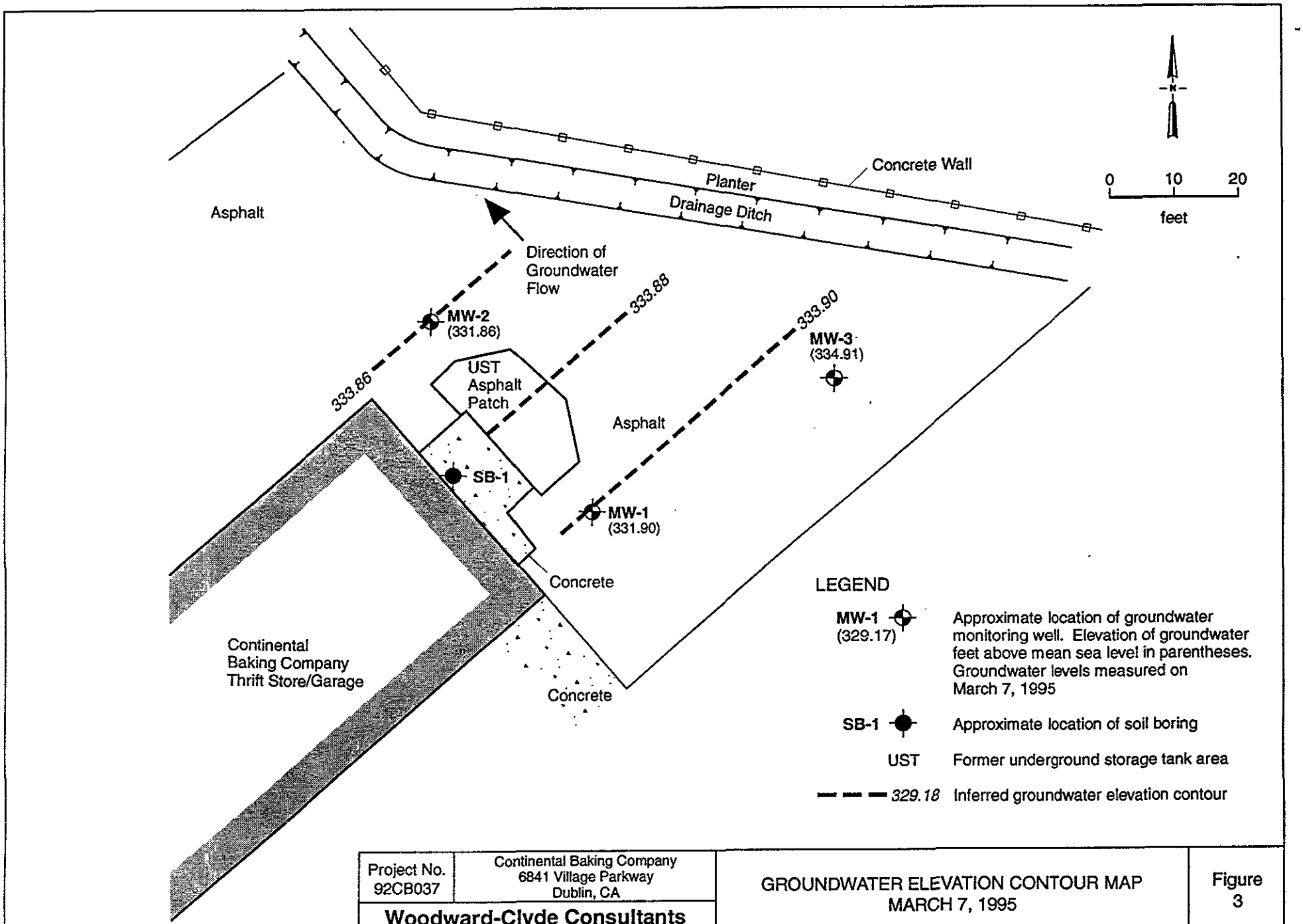

LEGEND

- ● Tank Closure Soil Sample Locations
- ▥ Storm Drain

(not to scale)

| Project No. 92CB037 | Continental Baking Company 6841 Village Parkway Dublin, California | SITE PLAN AND LOCATIONS OF UST CLOSURE SOIL SAMPLES | Figure ●2 |
|---|---|---|---|
| **Woodward-Clyde Consultants** | | | |

92CB037-0000/030593




| Project No. 92CB037 | Continental Baking Company 6841 Village Parkway Dublin, CA | GROUNDWATER ELEVATION CONTOUR MAP MARCH 7, 1995 | Figure 3 |
|---|---|---|---|
| **Woodward-Clyde Consultants** | | | |

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**TABLE 1**

**ANALYTICAL RESULTS (IN MG/KG, OR PPM) FOR SOIL SAMPLES COLLECTED IN SUPPORT OF THE UNDERGROUND STORAGE TANK CLOSURE AT THE CONTINENTAL BAKING COMPANY FACILITY 6841 VILLAGE PARKWAY, DUBLIN, CALIFORNIA**

| Sample Location | Sample Depth (feet) | Collection Date | Modified EPA 8015/8020 | | | | | | | CA DHS 938 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | TPH-D | TPH-K | TPH-O | Benzene | Toluene | Ethyl-benzene | Total Xylenes | Organic Lead |
| TP1 | 10.5 | 12/17/92 | 2,200 | <10 | <100 | <0.020 | <0.020 | 0.038 | 0.060 | <0.50 |
| TP2 | 10 | 12/17/92 | 1,600 | <10 | <100 | <0.020 | <0.020 | 0.088 | 0.058 | <0.50 |

Notes:

TPH-D: Total Petroleum Hydrocarbons quantified as diesel.
TPH-K: Total Petroleum Hydrocarbons quantified as kerosene.
TPH-O: Total Petroleum Hydrocarbons quantified as motor oil.

## TABLE #2

## ANALYTICAL RESULTS OF SOIL SAMPLES

| Soil Sample Identification | Depth of Sample Collection (feet) | BTEX (mg/Kg) | TPH-diesel (mg/Kg) |
|---|---|---|---|
| MW-1 | 7-7.5 | ND | ND |
| MW-1 | 11.5-12 | 0.35 (ethylbenzene)<br>3.1 (total xylenes) | 3100 |
| MW-2 | 5-5.5 | ND | ND |
| MW-2 | 9-9.5 | 0.11 (toluene)<br>0.18 (ethylbenzene)<br>0.67 (total xylenes) | 1100 |
| MW-3 | 6-6.5 | ND | ND |
| MW-3 | 11-11.5 | ND | ND |
| SB-1 | 5.5-6 | 0.027 (ethylbenzene)<br>0.071 (total xylenes) | 61 |
| SB-1* | 6-6.5 | 0.14 (toluene)<br>0.24 (ethylbenzene)<br>0.73 (total xylenes) | 1200 |
| SB-1 | 10-10.5 | 0.18 (toluene)<br>0.50 (ethylbenzene)<br>1.4 (total xylenes) | 720 |

* Duplicate sample, collected at interval immediately below initial sample
ND = not detected at or above the laboratory reporting limit
mg/Kg = milligrams per kilogram
TPH = total petroleum hydrocarbons

# TABLE - 3

## SUMMARY OF ANALYTICAL RESULTS
## CONTINENTAL BAKING COMPANY, DUBLIN, CALIFORNIA

| Parameters | | TPH diesel | TPH BTEX | | | |
|---|---|---|---|---|---|---|
| | | | benzene | toluene | ethyl-benzene | tot. xylenes |
| EPA Method | | 8015 | 8020 | | | |
| Units | | (μg/L) | (μg/L) | | | |
| Well Number | Date | | | | | |
| MW-1 | 3/7/94 | 210/230 | 0.50/<0.50 | 0.50/<0.50 | 0.50/<0.50 | 0.50/<0.50 |
| | 5/27/94 | 210 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 8/25/94 | 120 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 11/29/94 | 110/120 | <0.50/<0.50 | <0.50/<0.50 | <0.50/<0.50 | <0.50/<0.50 |
| | 3/7/95 | 200 | <0.50 | <0.50 | <0.50 | <0.50 |
| MW-2 | 3/7/94 | 240 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 5/27/94 | 240/210 | 0.50/<0.5 | 0.50/<0.5 | 0.50/<0.5 | 0.50/<0.5 |
| | 8/25/94 | 280 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 11/29/94 | 240 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 3/7/95 | 600/480 | <0.50/<0.50 | <0.50/<0.50 | <0.50/<0.50 | <0.50/<0.50 |
| MW-3 | 3/7/94 | <50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 5/27/94 | <50 | 0.56 | <0.50 | <0.50 | 1.56 |
| | 8/25/94 | <50/<50 | <0.50/<0.50 | <0.50/<0.50 | <0.50/<0.50 | <0.50/<0.50 |
| | 11/29/94 | <50 | <0.50 | <0.50 | <0.50 | <0.50 |
| | 3/7/95 | <50 | <0.50 | <0.50 | <0.50 | <0.50 |

Results of duplicate sample analyses are shown by a dash ("/")

## TABLE 4

## SUMMARY OF GROUNDWATER ELEVATION
## CONTINENTAL BAKING COMPANY, DUBLIN, CA

| Well Identification | Date | Top of Casing Elevation (feet above MSL) | Depth to water (feet below top of casing) | Water Surface Elevation (feet above MSL) |
|---|---|---|---|---|
| MW-1 | 3/7/94 | 340.8 | 9.97 | 330.83 |
| | 5/27/94 | 340.8 | 10.87 | 329.93 |
| | 6/29/94 | 340.8 | 11.58 | 329.22 |
| | 7/29/94 | 340.8 | 11.62 | 329.18 |
| | 8/25/94 | 340.8 | 11.63 | 329.17 |
| | 10/4/94 | 340.8 | 12.03 | 328.77 |
| | 10/27/94 | 340.8 | 11.99 | 328.81 |
| | 11/29/94 | 340.8 | 10.75 | 330.05 |
| | 1/3/95 | 340.8 | 11.06 | 329.74 |
| | 1/30/95 | 340.8 | 7.57 | 333.23 |
| | 3/7/95 | 340.8 | 8.90 | 331.90 |
| MW-2 | 3/7/94 | 340.39 | 9.71 | 330.68 |
| | 5/27/94 | 340.39 | 10.52 | 329.87 |
| | 6/29/94 | 340.39 | 11.19 | 329.20 |
| | 7/29/94 | 340.39 | 11.22 | 329.17 |
| | 8/25/94 | 340.39 | 11.32 | 329.07 |
| | 10/4/94 | 340.39 | 11.50 | 328.89 |
| | 10/27/94 | 340.39 | 11.76 | 328.63 |
| | 11/29/94 | 340.39 | 10.47 | 329.92 |
| | 1/3/95 | 340.39 | 10.68 | 329.71 |
| | 1/30/95 | 340.39 | 7.18 | 333.21 |
| | 3/7/95 | 340.39 | 8.53 | 331.86 |
| MW-3 | 3/7/94 | 340.47 | 9.53 | 330.94 |
| | 5/27/94 | 340.47 | 10.43 | 330.04 |
| | 6/29/94 | 340.47 | 11.20 | 329.27 |
| | 7/29/94 | 340.47 | 11.29 | 329.18 |
| | 8/25/94 | 340.47 | 11.26 | 329.21 |
| | 10/4/94 | 340.47 | 11.55 | 328.92 |
| | 10/27/94 | 340.47 | 11.73 | 328.74 |
| | 11/29/94 | 340.47 | 10.40 | 330.07 |
| | 1/3/95 | 340.47 | 10.62 | 329.85 |
| | 1/30/95 | 340.47 | 6.86 | 333.61 |
| | 3/7/95 | 340.47 | 5.56 | 334.91 |

**Project:** CBC - Dublin
**Project Location:** 6841 Village Parkway, Dublin, CA
**Project Number:** 92CB037

# Log of Boring MW-1

Sheet 1 of 1

| | | | | | |
|---|---|---|---|---|---|
| Date(s) Drilled | 2/28/94 | Logged By | M. Castellanos | Checked By | |
| Drilling Method | Hollow Stem Auger | Drill Bit Size/Type | 11 1/4" Bullet Type | Approx. Surface Elevation (feet) | 341.37 msl |
| Drill Rig Type | Mobile B-61 | Drilled By | Kvilhaug Well Drilling | Total Depth Drilled (feet) | 18.5 |
| Groundwater Level (feet, bgs) | First 12.5 / Completion 10.4 / 24 Hours 10.28 | Number of Samples | Disturbed: / Undisturbed: | Sampler Type | 2 1/2-inch Split Spoon |
| Diameter of Hole (inches) | 12 | Diameter of Well (inches) | 4 | Type of Well Casing | 4-inch Schedule 40 PVC |
| Screen Perforation | 0.02-inch Slot 5'-18.5' | Type of Sand Pack | #2/12 Lonestar 5'-18.5' | Type/Thickness of Seal(s) | Bentonite 3'-4' / Grout (Neat Cement) 0.5'-3' |
| Comments | Located downgradient of former UST | | | | |

| Depth, feet | Elevation, feet | SAMPLES Type | Depth bgs feet | Blows/foot | USCS Classification | Graphic Log | MATERIAL DESCRIPTION | Well Completion Log | HNu (ppm) Headspace | HNu (ppm) Background | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 340 | | | | | | ASPHALT | | | | |
| 5 | 335 | | 5-6.5 | 25 | CL | | SANDY CLAY<br>Dark grayish green, firm, dry to slightly moist, 20% fine sand, clay of moderate plasticity | | 2 | | |
| | | | 6.5-8 | 11 | | | | | | | |
| 10 | | | | | SM | | SILTY SAND<br>Light olive gray, trace of clay, dry, 70% fine-grained sand, ~20% silt | | | | Odoriferous Soil at 7'<br>Chemical Sample (7'-7.5') |
| | 330 | | 11-12.5 | 17 | SC | | CLAYEY SAND<br>Dark gray to moderate brown, dense, 40% clay, 60% fine to medium sand | | 44 | | Chemical Sample (11.5'-12.0')<br>Note:<br>Well completed below grade inside a traffic rated christy type box and locking cap |
| 15 | | | 14.5-16 | 10 | | | CLAYEY SAND<br>Moderate brown, medium dense, fine to medium grained sand, 30% clay of moderate plasticity | | | | |
| | 325 | | | | | | | | | | |
| 20 | | | | | | | | | | | |
| | 320 | | | | | | | | | | |
| 25 | | | | | | | | | | | |
| | 315 | | | | | | | | | | |
| 30 | | | | | | | | | | | |

**Project:** CBC - Dublin
**Project Location:** 6841 Village Parkway, Dublin, CA
**Project Number:** 92CB037

# Log of Boring MW-2

Sheet 1 of 1

| | | | |
|---|---|---|---|
| Date(s) Drilled: 2/28/94 | Logged By: M. Castellanos | | Checked By: |
| Drilling Method: Hollow Stem Auger | Drill Bit Size/Type: 11 1/4" Bullet Type | | Approx. Surface Elevation (feet): 341.16 msl |
| Drill Rig Type: Mobile Drill B-61 | Drilled By: Kvilhaug Well Drilling | | Total Depth Drilled (feet): 18.5 |
| Groundwater Level (feet, bgs): First 13; Completion 10.3; 24 Hours 10.32 | Number of Samples: Disturbed: Undisturbed: | | Sampler Type: 2 1/2-inch Split Spoon |
| Diameter of Hole (inches): 12 | Diameter of Well (inches): 4 | Type of Well Casing: 4-inch Schedule 40 PVC | Screen Perforation: 0.02-inch Slot 5'-18.5' |
| Type of Sand Pack: #2/12 Lonestar 4'-18.5' | Type/Thickness of Seal(s): Bentonite 3'-4' / Grout (Neat Cement) 0.5'-3' | | |
| Comments: Continuously Sampled. Located upgradient of former UST | | | |

| Depth, feet | Elevation, feet | SAMPLES Type | Depth bgs feet | Blows/foot | USCS Classification | Graphic Log | MATERIAL DESCRIPTION | Well Completion Log | HNu (ppm) Headspace | HNu (ppm) Background | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | | ASPHALT | | | | |
| | 340 | | 1-2.5 | 42 | CL | | SANDY CLAY<br>Olive gray, slightly moist, 30% fine to medium-grained sand, few rounded gravels, some silt, non plastic clay | | <1 | <1 | Air Monitored with HNU |
| | | | 2.5-4 | 43 | | | | | <1 | <1 | |
| | | | 4-5.5 | 22 | | | | | <1 | <1 | |
| 5 | | | 5.5-7 | 32 | | | | | | | Chemical Sample (5'-5.5') |
| | 335 | | 7-8.5 | 25 | SM | | SILTY SAND<br>Light olive gray, dry, 30% fine-grained sand, 40% medium grained sand, trace of silt, some slightly plastic clay | | 20 | | |
| | | | 8.5-10 | 22 | ML | | SILTY CLAY<br>Gray, firm to hard, moderately plastic clay, trace of fine sand | | 20 | | Odiferous Soil at 8'<br>Chemical Sample (9'-9.5') |
| 10 | | | 10-11.5 | 8 | | | | | 25 | | |
| | 330 | | 11.5-13 | 20 | ML | | SILTY CLAY<br>Brownish gray with white crystilline veins, firm, moist, moderately plastic clay, | | | | Note:<br>Well completed below grade inside a christy type box (traffic rated) |
| | | | 13-14.5 | 10 | SC | | CLAYEY SAND<br>Moderate brown, saturated, very dense to dense, 40% fine-grained sand, plastic to very plastic clay | | | | |
| 15 | | | 14.5-16 | 11 | | | | | | | |
| | 325 | | 16-17.5 | 14 | | | Trace of gravel at bottom of sampling shoe | | | | |
| 20 | 320 | | | | | | | | | | |
| 25 | 315 | | | | | | | | | | |
| 30 | | | | | | | | | | | |

**Project:** CBC - Dublin
**Project Location:** 6841 Village Parkway, Dublin, CA
**Project Number:** 92CB037

# Log of Boring MW-3

Sheet 1 of 1

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Date(s) Drilled | 3/1/94 | | | Logged By | M. Castellanos | Checked By | |
| Drilling Method | Hollow Stem Auger | | | Drill Bit Size/Type | 11 1/4" Bullet Type | Approx. Surface Elevation (feet) | 340.78 msl |
| Drill Rig Type | Mobile Drill B-61 | | | Drilled By | Kvilhaug Well Drilling | Total Depth Drilled (feet) | 18.2 |
| Groundwater Level (feet, bgs) | First 12.5 | Completion 9.32 | 24 Hours 9.31 | Number of Samples | Disturbed: | Undisturbed: | Sampler Type 2 1/2-inch Split Spoon |
| Diameter of Hole (inches) | 12 | Diameter of Well (inches) | 4 | Type of Well Casing | 4-inch Schedule 40 PVC | Screen Perforation | 0.02-inch Slot 5'-17.5 |
| Type of Sand Pack | #2/12 Lonestar 4'-18.2' | | | Type/Thickness of Seal(s) | Bentonite 3'-4' / Grout (Neat Cement) 0.5'-3' | | |
| Comments | Located cross-gradient of former UST | | | | | | |

| Depth, feet | Elevation, feet | SAMPLES Type | SAMPLES Depth bgs feet | SAMPLES Blows/foot | USCS Classification | Graphic Log | MATERIAL DESCRIPTION | Well Completion Log | HNu (ppm) Headspace | HNu (ppm) Background | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 340 | | | | | | ASPHALT | | | | Air Monitored with HNU |
| 5 | 335 | | 6-6.5 | 14 | CL | | SANDY CLAY<br>Dark grayish green, firm, dry to slightly damp, 20% fine-grained sand, clay of low to moderate plasticity | | <1 | | Chemical Sample (6'-6.5') |
| | | | | | SM | | SILTY SAND<br>Light olive gray, dry, ~70% fine-grained sand, 20% silt | | | | |
| 10 | 330 | | 10'-11.5 | 13 | CL/ML | | SILTY SANDY CLAY<br>Brownish gray, 40% fine sand to silt, clay of medium plasticity, moisture increase at 11', trace of white crystalline veins | | <1 | | Chemical Sample (11'-11.5) |
| 15 | 325 | | 15-16.5 | 11 | SC | | CLAYEY SAND<br>Moderate brown, dense, 40% fine sand, plastic to very plastic clay, trace of gravel | | | | Note: Well completed below grade inside a traffic rated chrisy type box and locking cap |
| 20 | 320 | | | | | | | | | | |
| 25 | 315 | | | | | | | | | | |
| 30 | | | | | | | | | | | |

**Project:** CBC - Dublin
**Project Location:** 6841 Village Parkway, Dublin, CA
**Project Number:** 92CB037

# Log of Boring SB-1

Sheet 1 of 1

| | | | |
|---|---|---|---|
| Date(s) Drilled: 3/1/94 | Logged By: M. Castellanos | Checked By: | |
| Drilling Method: Hollow Stem Auger | Drill Bit Size/Type: 6" Bullet Type | Approx. Surface Elevation (feet): 341.93 msl | |
| Drill Rig Type: Mobile Drill B-61 | Drilled By: Kvilhaug Well Drilling | Total Depth Drilled (feet): 10.5 | |
| Groundwater Level (feet, bgs): First / Completion / 24 Hours | Number of Samples: Disturbed: / Undisturbed: | Sampler Type: 2 1/2-inch Split Spoon | |
| Diameter of Hole (inches): 6 1/4 | Diameter of Well (inches): - | Type of Well Casing: NA | Screen Perforation: NA |
| Type of Sand Pack: NA | Type/Thickness of Seal(s): Grout (Neat Cement) 0'-10.5' | | |
| Comments: Hole backfilled after sampling, boring loccated near former fuel dispenser | | | |

| Depth, feet | Elevation, feet | SAMPLES Type | SAMPLES Depth bgs feet | SAMPLES Blows/foot | USCS Classification | Graphic Log | MATERIAL DESCRIPTION | Well Completion Log | HNu (ppm) Headspace | HNu (ppm) Background | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 340 | | | | | | CEMENT | | | | Air Monitored with HNU<br>Odiferous Soil |
| 5 | 335 | | 5-6.5 | 28 | CL | | SANDY CLAY<br>Dark olive gray, dry, 60% clay of low plasticity, 40% fine to medium grained sand, sparse gravels | | 5 | | Chemical Sample (5.5'-6')<br>Duplicate (6'-6.5') |
| 10 | 330 | | 8-10 | 14 | ML | | SILTY CLAY<br>Gray, firm, 40% fine-grained sand and silt, clay of medium plasticity | | <1 | | Chemical Sample (10'-10.5') |
| 15 | 325 | | | | | | | | | | |
| 20 | 320 | | | | | | | | | | |
| 25 | 315 | | | | | | | | | | |
| 30 | | | | | | | | | | | |