Quarterly Groundwater Monitoring and Groundwater Extraction and Treatment System Status Report for Del Monte Plant 35 - West Parcel 4204 Hollis Street, Emeryville, California

Prepared for

Del Monte Foods USA

Prepared by

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INTRODUCTION

This report presents the quarterly groundwater monitoring analytical data and the status of the groundwater extraction and treatment (GET) system located at Del Monte Plant 35 - West Parcel, at 4204 Hollis Street in Emeryville, California. Quarterly groundwater monitoring at Plant 35 was conducted on December 29, 1994. Quarterly GET system sampling was conducted on December 6, 1994.

BACKGROUND

Del Monte Plant 35 is located in an industrial area and was a food processing plant from the late 1920s through 1989. Plant 35 is located on approximately 13 acres; the West Parcel, located at 4204 Hollis Street, is approximately 2 acres in size and the East Parcel, located at 1250 Park Avenue, is approximately 11 acres in size (Figure 1).

Plant 35 is underlain by approximately 5 to 8 feet of fill which is composed primarily of clay containing gravel. Native silty clay extends from beneath the fill to a depth of approximately 15 to 20 feet below ground surface. Discontinuous lenses of sands and gravels have also been encountered within the native silty clay. This silty clay zone is underlain with silty sand. Shallow groundwater exists beneath the property at a depth of approximately 7 to 10 feet below ground surface and flows in a southwesterly direction (Figure 2).

Del Monte removed four 50-gallon underground tanks from the West Parcel in March 1989 as described in "Property Assessment and Tank Removal Report, Del Monte Plant No. 35, Southwest Corner" (CH2M HILL, September 1989). These tanks were located adjacent to a building that Del Monte had previously leased to medical research companies. The tanks were used to store fuel oil; however, prior to removal of the tanks, tank content sampling revealed the presence of chlorinated hydrocarbon compounds. Subsequent groundwater investigations revealed the presence of chlorinated hydrocarbon compounds in the shallow groundwater in the vicinity of the former fuel oil tank area. Del Monte has been monitoring the groundwater in the vicinity of the former fuel oil tank area since May 1989.

Del Monte demolished and removed the building located at the southwest corner of the West Parcel during December 1992. The removal of this building provided access to soil that could not be removed during the removal of the four fuel oil tanks in 1989.

GROUNDWATER MONITORING

Monitoring wells MW-7, MW-9, MW-10, and MW-12 were sampled as part of the quarterly monitoring program. The monitoring well locations are shown on Figure 1 and the analytical results from this and previous monitoring events are summarized in Table 1. Laboratory analytical reports for the monitoring well samples are included in Attachment A. The field sampling report is provided in Attachment B.

Monitoring well MW-11 was removed in June 1994 during the construction of the new groundwater extraction trench (discussed below in the Groundwater Extraction and Treatment System section of this report). To replace MW-11 data, a water sample from the extraction trench (SP-E) was collected and analyzed during quarterly groundwater extraction and treatment (GET) system sampling. The sample from SP-E, however, represents the average water quality of a larger volume of water than the previous samples from MW-11.

Monitoring well MW-8 was removed in 1993 when the groundwater extraction pit was constructed. Water samples collected from the influent sample port (SP-D) of the GET system have been used to replace the samples previously collected from MW-8. When the new groundwater extraction trench became operational in August 1994 (see discussion below), SP-D represented water extracted from both the extraction pit and trench. Figure 3 shows trichloroethene (TCE) concentrations in groundwater samples collected from former monitoring well MW-8 and the influent sample port (SP-D) of the GET system.

With the exception of MW-12, the groundwater monitoring results from the fourth quarter event are consistent with or lower than the previous quarterly monitoring results:

- Concentrations of chlorinated hydrocarbons in samples from SP-D and SP-E are generally consistent with the previous quarter.

- Monitoring well MW-12 showed an increase in TCE and PCE, although levels are still well below levels measured before the extraction trench became operational in August 1994.

- Monitoring wells MW-7, MW-9, and MW-10 showed large decreases in TCE, PCE and 1,2-DCE concentrations compared to last quarter's sampling.

GROUNDWATER EXTRACTION AND TREATMENT SYSTEM

System Description

Del Monte began construction of a GET system on January 11, 1993 and began operating the system on January 14, 1993. In June and July 1994, the extraction system was expanded as described below. The objective of the GET system is to extract and treat groundwater containing chlorinated hydrocarbons, thereby reducing levels of chlorinated hydrocarbons in the shallow groundwater beneath the West Parcel.

The original GET system extracts groundwater through one of two 16-inch diameter perforated pipes installed in the pea gravel at the bottom of the excavation pit. The extracted groundwater is pumped to a 20,000-gallon covered settling tank to settle out silt and fine sand. An automatic shutoff device does not allow for more than 7,000 gallons of water to be contained within the 20,000-gallon settling tank at any time. After the settling tank, the extracted groundwater gravity flows to a 100-gallon holding tank prior to treatment. Treatment consists of two activated carbon canisters in series. The treated groundwater is then discharged to the sanitary sewer; Del Monte obtained a Wastewater Discharge Permit from the East Bay Municipal Utility District (EBMUD).

The GET system was shut down on December 10, 1993 due to the expiration of the EBMUD Wastewater Discharge Permit. Del Monte received a renewed Wastewater Discharge Permit on January 14, 1994, but the restart of the GET system was delayed until March 8, 1994 because of a faulty transfer pump and the unavailability of an electrical power source on the Plant 35 property. The shutdown and restart dates are shown on Figure 3.

System Expansion

As described in the Draft Remediation Plan for Del Monte Plant 35 prepared by CH2M HILL in April 1994, Del Monte expanded the groundwater extraction system on the West Parcel by constructing an extraction trench adjacent and parallel to Hollis Street. Figure 4 shows a plan view of the expanded GET system. The trench was completed in early July 1994. Extraction of groundwater from the trench began on August 11, 1994 after piezometers were installed downgradient to monitor the zone of influence. The piezometer locations are shown on Figure 5.

Another modification made to the GET system in July 1994 was the change of the discharge point from the sanitary sewer line leading to Park Avenue to another on-site sanitary sewer line leading to Hollis Street. This change was made in early July at the request of the City of Emeryville.

A schematic of the GET system is shown on Figure 6. Five water sample ports (SP-A, SP-B, SP-C, SP-D, and SP-E) used to monitor the GET system are also shown on Figure 6.

Wastewater Discharge Permit Requirements

A renewed Wastewater Discharge permit was issued to Del Monte on January 14, 1994 by EBMUD for discharge of the treated groundwater to the sanitary sewer. The renewed Wastewater Discharge Permit contains the following modifications to the Self-Monitoring Reporting Requirements (SMRRs):

- Sampling from the GET system sample port SP-A is no longer required unless levels of chlorinated hydrocarbons from sample port SP-B increase

- Sampling from sample ports SP-B and SP-D is required only once a quarter

- Samples from sample ports SP-B and SP-D are required to be analyzed only for EPA Method 601. BTEX analyses are no longer required because BTEX has never been detected in any of the GET system samples.

Our letter of June 24, 1994 to EBMUD described the groundwater extraction system expansion and the change to the discharge point.

The wastewater discharge permit issued by EBMUD was again renewed on January 18, 1995 effective through January 17, 1998. The renewed permit requires the collection of self-monitoring samples from sample ports B and D on a quarterly basis and reporting on a semi-annual basis. The wastewater discharge limitation for VOC Total Toxic Organics remains unchanged at 0.035 mg/l.

GET System Results

As of December 15, 1994, the GET system has extracted and treated a total of 3,310,748 gallons of water. GET system inspection logs since the last quarterly monitoring event are contained in Attachment C.

In accordance with the requirements of the Wastewater Discharge Permit, Del Monte collected water samples from GET system sample ports SP-B and SP-D on December 6, 1994. Samples were also collected from sample ports SP-A and SP-E. The samples were analyzed for chlorinated hydrocarbons (EPA Method 601), and the results are summarized in Table 2. The laboratory reports for the samples collected during the fourth quarter of 1994 are included in Attachment A.

The monitoring results of the GET system indicate that the system is effectively removing chlorinated hydrocarbons prior to discharge.

Water Level Measurements

Water levels at the three piezometers have been measured once every one to two weeks since August 1994.

The expanded extraction system pumped at an average rate of 6.5 gallons per minute from August 11 to October 21, 1994. Based on water level fluctuations measured at P-1, P-2, and P-3 between August 11 and October 21, 1994, the pumping rate was adjusted downward on October 21, 1994 to reduce the influence on groundwater downgradient of the Del Monte property.

Between October 15 and December 15, 1994 the extraction system pumped at an average rate of 4.88 gallons per minute. Groundwater level measurements and corresponding flow directions are shown in Attachment D. The figures in Attachment D show general groundwater flow direction. The figures are not intended to show capture zones.

Special Events

The GET system transfer pump broke down in mid-December 1994. The pump was taken out of service December 15, 1994 for repairs and replaced January 13, 1995. During that time the GET system was not operating.

With written approval from EBMUD, on December 8, 1994 41,986 gallons of water from the East Parcel of the Del Monte Plant 35 property were discharged to the sanitary sewer after passing through the groundwater treatment system. The source of the water was groundwater that had accumulated in a pit excavated east of the main processing building during a soil remediation activity. The water contained chlorinated hydrocarbons. During treatment, water samples were collected at sample ports SP-A and SP-B and analyzed for chlorinated hydrocarbons. TPH-diesel, and TPH-gas/BTEX. Results indicated that the water was adequately treated before discharge to the sanitary sewer. Analytical results obtained from sampling during treatment and discharge are provided in Attachment A.

FUTURE ACTIVITIES

Del Monte will continue quarterly monitoring of MW-7, MW-9, MW-10, and MW-12 for chlorinated hydrocarbons. The next quarterly monitoring event is scheduled on March 31, 1995. The next groundwater monitoring quarterly report is scheduled for completion April 30, 1995. The next GET system report is scheduled for July 31, 1995 and will cover the period of January through June 30, 1995.

TABLE 1

DEL MONTE PLANT NO. 35, WEST PARCEL
4204 HOLLIS STREET, EMERYVILLE, CA
QUARTERLY GROUNDWATER MONITORING RESLUTS

Monitoring Well	Sampling Date	Concentration (ug/L) 1,2-DCE(a)	1,1-DCE(b)	1,2-DCA(c)	TCE(d)	PCE(e)	VC(f)	1,2-DP(g)
MW7	17-Apr-91	85.0	<0.5	<0.5	23.0	14.0	5.1	<0.5
MW7	31-Jul-91	100.0	<0.5	<0.5	29.0	19.0	5.1	<0.5
MW7	22-Oct-91	130.0	<1.0	<1.0	30.0	20.0	3.0	<1.0
MW7	23-Jan-92	100.0	<0.5	<0.5	29.0	17.0	3.1	<0.5
MW7	23-Apr-92	92.0	<0.5	<0.5	46.0	28.0	<0.5	<0.5
MW7	17-Jul-92	93.0	<0.5	<0.5	51.0	30.0	1.8	<0.5
MW7	12-Oct-92	71.0	<0.5	<0.5	39.0	28.0	2.8	<0.5
MW7	13-Jan-93	54.0	<0.5	<0.5	25.0	16.0	2.1	<0.5
MW7	30-Mar-93	65.0	<0.5	<0.5	31.0	22.0	2.5	<0.5
MW7	16-Jun-93	45.0	<2.0	<2.0	25.0	19.0	2.7	<2.0
MW7	17-Sep-93	1.6 (t)	<1.0	<1.0	17.0	12.0	<1.0	<1.0
MW7	21-Dec-93	20.3	<0.5	<0.5	17.0	20.0	1.9	<0.5
MW7	14-Feb-94	18.0	<0.5	<0.5	13.0	11.0	0.7	<0.5
MW7	11-Apr-94	13.0	<0.5	<0.5	12.0	10.0	<1.0	<0.5
MW7	15-Jul-94	18.8	<0.5	<0.5	13.0	11.0	<0.50	<0.5
MW7	17-Oct-94	18.2	<0.5	<0.5	11.0	10.0	<0.50	<0.5
MW7	**29-Dec-94**	**<1.0 (t)**	**<1.0**	**<1.0**	**4.4**	**3.8**	**<1.0**	**<1.0**
MW8	12-May-89	290.0	<10.0	<10.0	1400.0	20.0	78.0	<10.0
MW8	10-Jul-89	140.0	<2.5	<2.5	330.0	14.0	17.0	<2.5
MW8-dup	10-Jul-89	130.0	<2.5	<2.5	310.0	12.0	16.0	<2.5
MW8	24-Oct-89	100.0	<2.0	<2.0	330.0	24.0	4.0	<2.0
MW8	07-Feb-90	100.0	<2.0	<2.0	520.0	18.0	12.0	<2.0
MW8	10-Jul-90	5.0	<0.2	<0.5	91.0	36.0	3.0	<0.5
MW8	17-Oct-90	59.0	<1.0	<1.0	160.0	21.0	2.0	<1.0
MW8	24-Jan-91	160.0	<2.0	<5.0	450.0	13.0	9.0	27.0
MW8	17-Apr-91	210.0	<5.0	<5.0	830.0	16.0	<5.0	<5.0
MW8	31-Jul-91	85.0	<2.0	<2.0	350.0	30.0	<2.0	<2.0
MW8	22-Oct-91	40.0	<5.0	<5.0	630.0	20.0	<5.0	<5.0
MW8	23-Jan-92	160.0	<5.0	<5.0	690.0	29.0	<5.0	<5.0
MW8	23-Apr-92	130.0	<10.0	<10.0	1600.0	30.0	<10.0	<10.0
MW8	17-Jul-92	35.0	<2.0	<2.0	490.0	11.0	<2.0	<2.0
MW8	12-Oct-92	22.0	<1.0	<1.0	110.0	24.0	1.3	<1.0
MW8 (SP-D)	19-Jan-93	37.0	<0.5	<0.5	620.0	4.9	3.0	<0.5
MW8 (SP-D)	26-Feb-93	50.0	<0.5	<0.5	350.0	14.0	<0.5	<0.5
MW8 (SP-D)	11-Mar-93	44.9	<0.5	<0.5	130.0	25.0	<0.5	<0.5
MW8 (SP-D)	06-Apr-93	48.0	<1.0	<1.0	160.0	21.0	<1.0	<1.0
MW8 (SP-D)	04-May-93	29.0	<0.5	<0.5	89.0	14.0	<0.5	<0.5
MW8 (SP-D)	02-Jun-93	1.2 (t)	<1.0	<1.0	120.0	8.5	<1.0	<1.0
MW8 (Extr. Well)	16-Jun-93	66.8	<2.0	<2.0	86.0	31.0	1.4	<2.0
MW8 (SP-D)	16-Jun-93	62.0	<2.0	<2.0	102.0	24.0	<2.0	<2.0
MW8 (SP-D)	02-Sep-93	<1.0 (t)	<1.0	<1.0	83.0	11.0	<1.0	<1.0
MW8 (SP-D)	01-Oct-93	<1.0 (t)	<1.0	<1.0	41.0	10.0	<1.0	<1.0
MW8 (SP-D)	05-Nov-93	<1.0 (t)	<1.0	<1.0	56.0	11.0	<1.0	<1.0
MW8 (SP-D)	02-Dec-93	<1.0 (t)	<1.0	<1.0	68.0	11.0	<1.0	<1.0
MW8 (SP-D)	09-Mar-94	<1.0 (t)	<1.0	<1.0	130.0	4.4	<1.0	<1.0
MW8 (SP-D)	16-Jun-94	<1.0 (t)	<1.0	<1.0	37.0	13.0	<1.0	<1.0
MW8 (SP-D)	17-Oct-94	<1.0 (t)	<1.0	<1.0	2.5	2.5	<1.0	<1.0
MW8 (SP-D)	**06-Dec-94**	**<1.0 (t)**	**<1.0**	**<1.0**	**5.5**	**1.4**	**<1.0**	**<1.0**
MW9	10-Jul-89	63.0	<0.5	<0.5	13.0	38.0	16.0	<0.5
MW9	24-Oct-89	6.4	<0.5	<0.5	29.0	48.0	23.0	<0.5
MW9	07-Feb-90	55.0	<0.5	<0.5	15.0	30.0	7.1	<0.5
MW9	10-Jul-90	3.0	<0.2	<0.5	9.0	43.0	10.0	<0.5
MW9	17-Oct-90	70.0	<0.5	<0.5	14.0	32.0	4.6	<0.5

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Monitoring Well	Sampling Date	Concentration (ug/L) 1,2-DCE(a)	1,1-DCE(b)	1,2-DCA(c)	TCE(d)	PCE(e)	VC(f)	1,2-DP(g)
MW9	24-Jan-91	70.0	<2.0	<2.0	220.0	23.0	<2.0	<2.0
MW9	17-Apr-91	44.0	<0.5	<0.5	12.0	26.0	<0.5	<0.5
MW9	31-Jul-91	55.0	<0.5	<0.5	14.0	32.0	2.3	<0.5
MW9	22-Oct-91	71.0	<0.5	<0.5	15.0	33.0	2.8	<0.5
MW9	23-Jan-92	64.0	<0.5	<0.5	10.0	27.0	2.1	<0.5
MW9	23-Apr-92	22.0	<0.5	<0.5	11.0	29.0	<0.5	<0.5
MW9	17-Jul-92	26.0	<0.5	<0.5	13.0	32.0	<0.5	<0.5
MW9	12-Oct-92	41.0	<0.5	<0.5	17.0	36.0	3.0	<0.5
MW9	21-Dec-93	34.5	<0.5	<0.5	16.0	34.0	5.9	<0.5
MW9	13-Jan-93	22.0	<0.5	<0.5	7.9	17.0	1.4	<0.5
MW9	30-Mar-93	26.0	<0.5	<0.5	9.6	22.0	2.1	<0.5
MW9	16-Jun-93	41.5	<2.0	<2.0	12.0	27.0	6.8	<2.0
MW9	17-Sep-93	1.6 (t)	<1.0	<1.0	11.0	21.0	3.5	<1.0
MW9	21-Dec-93	34.5	<0.5	<0.5	16.0	34.0	5.9	<0.5
MW9	14-Feb-94	30.8	<0.5	<0.5	11.0	25.0	4.2	<0.5
MW9	11-Apr-94	18.0	<0.5	<0.5	9.0	18.0	1.6	<0.5
MW9	15-Jul-94	42.4	<0.5	<0.5	15.0	24.0	7.1	<0.5
MW9	17-Oct-94	35.6	<0.5	<0.5	14.0	24.0	2.2	<0.5
MW9	**29-Dec-94**	**<1.0 (t)**	**<1.0**	**<1.0**	**3.5**	**8.5**	**<1.0**	**<1.0**
MW10	10-Jul-89	85.0	0.8	<0.5	27.0	42.0	28.0	<0.5
MW10	24-Oct-89	104.8	<0.5	<0.5	37.0	28.0	6.9	<0.5
MW10	07-Feb-90	50.0	<0.5	<0.5	11.0	8.0	5.3	<0.5
MW10	10-Jul-90	9.0	<0.2	<0.5	30.0	76.0	54.0	<0.5
MW10-dup	10-Jul-90	10.0	5.0	<0.5	28.0	69.0	17.0	<0.5
MW10	17-Oct-90	140.0	<0.5	<0.5	35.0	37.0	13.0	<0.5
MW10	24-Jan-91	65.0	<0.5	<0.5	14.0	31.0	3.3	<0.5
MW10	17-Apr-91	210.0	<2.0	<2.0	48.0	52.0	10.0	<2.0
MW10	31-Jul-91	280.0	<2.0	<2.0	66.0	14.0	2.0	<2.0
MW10	22-Oct-91	160.0	<1.0	<1.0	40.0	40.0	5.0	<1.0
MW10	23-Jan-92	240.0	<2.0	<2.0	46.0	54.0	10.0	<2.0
MW10	23-Apr-92	210.0	<2.0	<2.0	89.0	110.0	<2.0	<2.0
MW10	17-Jul-92	180.0	<1.0	<1.0	78.0	82.0	15.0	<1.0
MW10	12-Oct-92	110.0	<1.0	<1.0	45.0	46.0	11.0	<1.0
MW10	13-Jan-93	190.0	<1.0	<1.0	78.0	110.0	19.0	<1.0
MW10	30-Mar-93	26.0	<0.5	<0.5	15.0	18.0	0.7	<0.5
MW10	16-Jun-93	3.2	<2.0	<2.0	2.7	4.7	<2.0	<2.0
MW10	17-Sep-93	<1.0 (t)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
MW10	21-Dec-93	<0.5	<0.5	<0.5	<0.5	1.6	<0.5	<0.5
MW10	14-Feb-94	9.9	<0.5	<0.5	5.4	4.4	<0.5	<0.5
MW10	11-Apr-94	3.7	<0.5	<0.5	2.2	1.5	<1.0	<0.5
MW10	15-Jul-94	<0.5	<0.5	<0.5	1.0	1.0	<0.5	<0.5
MW10	17-Oct-94	20.6	<0.5	<0.5	37.0	19.0	<0.5	<0.5
MW10	**29-Dec-94**	**<1.0 (t)**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<1.0**
MW11	10-Jul-89	73.0	<1.0	4.0	160.0	12.0	16.0	5.7
MW11	24-Oct-89	188.0	<2.0	10.0	410.0	15.0	22.0	20.0
MW11	07-Feb-90	105.0	<2.0	2.0	270.0	8.0	11.0	13.0
MW11	10-Jul-90	4.0	<2.0	23.0	46.0	18.0	15.0	<0.5
MW11	17-Oct-90	150.0	<2.0	11.0	300.0	8.0	<2.0	31.0
MW11	24-Jan-91	120.0	<1.0	<1.0	29.0	29.0	3.0	<1.0
MW11	17-Apr-91	100.0	<1.0	14.0	160.0	12.0	5.0	29.0
MW11	31-Jul-91	250.0	<2.0	<2.0	61.0	65.0	12.0	2.0
MW11	22-Oct-91	180.0	<2.0	5.0	560.0	20.0	5.0	30.0
MW11	23-Jan-92	160.0	<2.0	13.0	290.0	19.0	<2.0	21.0

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4204 HOLLIS STREET, EMERYVILLE, CA
QUARTERLY GROUNDWATER MONITORING RESLUTS

Monitoring Well	Sampling Date	Concentration (ug/L) 1,2-DCE(a)	1,1-DCE(b)	1,2-DCA(c)	TCE(d)	PCE(e)	VC(f)	1,2-DP(g)
MW11	23-Apr-92	30.0	<1.0	9.0	120.0	13.0	<1.0	14.0
MW11	17-Jul-92	26.0	<0.5	1.4	81.0	<0.5	<0.5	3.5
MW11	12-Oct-92	63.0	<3.0	4.4	450.0	16.0	5.2	17.0
MW11	13-Jan-93	29.0	<1.0	2.2	140.0	13.0	3.2	6.4
MW11	30-Mar-93	17.0	<0.5	<0.5	55.0	10.0	1.6	5.1
MW11	16-Jun-93	41.5	<2.0	6.3	230.0	20.0	7.0	7.2
MW11	17-Sep-93	<5.0 (t)	<5.0	<5.0	230.0	<5.0	<5.0	<5.0
MW11	21-Dec-93	32.2	<0.5	2.8	220.0	14.0	6.1	<0.5
MW11	14-Feb-94	11.8	<0.5	2.0	52.0	5.6	1.5	2.6
MW11	11-Apr-94	10.0	<0.5	<0.5	57.0	4.9	<1.0	2.7
MW11	27-Jun-94	<0.5	<0.5	<0.5	110.0	12.0	<0.5	<0.5
MW-11 (SP-E)	30-Sep-94	<1.0 (t)	<1.0	<1.0	2.6	2.8	<1.0	<1.0
MW-11 (SP-E)	06-Dec-94	NA	NA	NA	4.2	1.8	<1.0	<1.0 (t)
MW12	02-Mar-94	35.3	<0.5	<0.5	170.0	16.0	6.8	<0.5
MW12	11-Apr-94	25.0	<0.5	<0.5	100.0	13.0	<1.0	<0.5
MW12	15-Jul-94	31.9	<0.5	<0.5	82.0	19.0	4.2	<0.5
MW12	17-Oct-94	<0.5	<0.5	<0.5	1.1	0.9	<0.5	<0.5
MW12	29-Dec-94	<1.0 (t)	<1.0	<1.0	28.0	11.0	<1.0	<1.0
	Primary MCL	---	6	0.5	5	5	0.5	5

(a) 1,2-Dichloroethene (c) 1,2-Dichloroethane (e) Tetrachloroethene (g) 1,2-Dichloropropane
(b) 1,1-Dichloroethene (d) Trichloroethene (f) Vinyl chloride (t) trans-1,2-Dichloroethene

Filename: mwconc.xls

TABLE 2

GROUNDWATER TREATMENT SYSTEM MONITORING RESULTS
DEL MONTE PLANT 35
4204 HOLLIS STREET, EMERYVILLE CA

Sample Port	Date	Concentrations (ug/L) B	T	E	X	PCE	TCE	VC	1,2-DCE
SP-A	14-Jan-93	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
SP-A	19-Jan-93	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
SP-A*	19-Jan-93	< 0.5	< 1.0	< 1.0	< 1.0	< 1.0	< 0.6	< 1.0	< 0.6
SP-A	27-Jan-93	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
SP-A	26-Feb-93	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
SP-A*	22-Mar-93	< 0.5	< 1.0	< 1.0	< 1.0	< 1.0	< 0.6	< 1.0	< 0.6
SP-A	06-Apr-93	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.9
SP-A	04-May-93	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	5.1
SP-A	02-Jun-93	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 1.0	< 1.0 t
SP-A	29-Jul-93	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 1.0	< 1.0 t
SP-A	02-Sep-93	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 1.0	< 1.0 t
SP-A	01-Oct-93	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 1.0	< 1.0 t
SP-A	05-Nov-93	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	3.7	< 1.0	1.0 t
SP-A	02-Dec-93	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	13	< 1.0	< 1.0 t
SP-A	09-Mar-94	NA	NA	NA	NA	NA	NA	NA	NA
SP-A	16-Jun-94	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0 t
SP-A	30-Sep-94	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0 t
SP-A	06-Dec-94	NA	NA	NA	NA	<1.0	<1.0	<1.0	<1.0 t
SP-A**	08-Dec-94	<0.5	<0.5	<0.5	<0.5	<1.0	2.1	<1.0	<1.0 t
SP-B	14-Jan-93	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
SP-B	19-Jan-93	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
SP-B	27-Jan-93	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
SP-B	26-Feb-93	< 0.5	< 0.5	< 0.5	< 0.5	5.9	< 0.5	< 0.5	< 0.5
SP-B	06-Apr-93	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	11	< 0.5	27
SP-B	04-May-93	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	16	<0.5	39
SP-B	02-Jun-93	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	5.5	< 1.0	<1.0 t
SP-B	29-Jul-93	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	12	< 1.0	<1.0 t
SP-B	02-Sep-93	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	42	< 1.0	<1.0 t
SP-B	01-Oct-93	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	36	< 1.0	<1.0 t
SP-B	05-Nov-93	< 0.5	< 0.5	< 0.5	< 0.5	< 1.0	67	< 1.0	<1.0 t
SP-B	02-Dec-93	< 0.5	< 0.5	< 0.5	< 0.5	1.1	61	< 1.0	<1.0 t
SP-B	09-Mar-94	NA	NA	NA	NA	<1.0	4.9	<1.0	<1.0 t
SP-B	16-Jun-94	NA	NA	NA	NA	<1.0	26	<1.0	<1.0 t
SP-B	30-Sep-94	NA	NA	NA	NA	<1.0	1.8	<1.0	<1.0 t
SP-B	06-Dec-94	NA	NA	NA	NA	4.0	4.8	<1.0	<1.0 t
SP-B**	08-Dec-94	<0.5	<0.5	<0.5	<0.5	6.2	8.6	<1.0	<1.0 t
SP-C	14-Jan-93	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.9	< 0.5	< 0.5
SP-C	19-Jan-93	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	3.4	< 0.5	< 0.5
SP-C	27-Jan-93	< 0.5	< 0.5	< 0.5	< 0.5	6.6	250	< 0.5	19
SP-C	26-Feb-93	< 0.5	< 0.5	< 0.5	< 0.5	12	220	< 0.5	36
SP-C	11-Mar-93	NA	NA	NA	NA	17	100	< 0.5	37
SP-C	06-Apr-93	< 0.5	< 0.5	< 0.5	< 0.5	13	130	< 1.0	34
SP-C	04-May-93	NA	NA	NA	NA	NA	NA	NA	NA
SP-C	02-Jun-93	NA	NA	NA	NA	NA	NA	NA	NA
SP-C	29-Jul-93	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 2

GROUNDWATER TREATMENT SYSTEM MONITORING RESULTS
DEL MONTE PLANT 35
4204 HOLLIS STREET, EMERYVILLE CA

Sample Port	Date	Concentrations (ug/L) B	T	E	X	PCE	TCE	VC	1,2-DCE
SP-C	02-Sep-93	NA	NA	NA	NA	NA	NA	NA	NA
SP-C	01-Oct-93	NA	NA	NA	NA	NA	NA	NA	NA
SP-C	05-Nov-93	NA	NA	NA	NA	NA	NA	NA	NA
SP-C	02-Dec-93	NA	NA	NA	NA	NA	NA	NA	NA
SP-C	09-Mar-94	NA	NA	NA	NA	NA	NA	NA	NA
SP-C	16-Jun-94	NA	NA	NA	NA	NA	NA	NA	NA
SP-C	30-Sep-94	NA	NA	NA	NA	NA	NA	NA	NA
SP-C	08-Dec-94	NA	NA	NA	NA	NA	NA	NA	NA
SP-D	14-Jan-93	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
SP-D	19-Jan-93	< 0.5	< 0.5	< 0.5	< 0.5	4.9	620	3.0	37
SP-D	26-Feb-93	< 0.5	< 0.5	< 0.5	< 0.5	14	350	< 0.5	50
SP-D	11-Mar-93	NA	NA	NA	NA	25	130	< 0.5	44.9
SP-D	06-Apr-93	NA	NA	NA	NA	21	160	< 1.0	48
SP-D	04-May-93	< 0.5	< 0.5	< 0.5	< 0.5	14	89	< 0.5	29
SP-D	02-Jun-93	< 0.5	< 0.5	< 0.5	< 0.5	8.5	130	< 1.0	1.2 t
SP-D	16-Jun-93	< 2.0	< 2.0	< 2.0	< 2.0	24	102	< 2.0	62
SP-D	29-Jul-93	< 0.5	< 0.5	< 0.5	< 0.5	7.2	60	< 1.0	<1.0 t
SP-D	02-Sep-93	< 0.5	< 0.5	< 0.5	< 0.5	11	83	< 1.0	<1.0 t
SP-D	01-Oct-93	< 0.5	< 0.5	< 0.5	< 0.5	10	41	< 1.0	<1.0 t
SP-D	05-Nov-93	< 0.5	< 0.5	< 0.5	< 0.5	11	56	< 1.0	<1.0 t
SP-D	02-Dec-93	< 0.5	< 0.5	< 0.5	< 0.5	11	68	< 1.0	<1.0 t
SP-D	09-Mar-94	NA	NA	NA	NA	4.4	130	<1.0	<1.0 t
SP-D	16-Jun-94	NA	NA	NA	NA	13	37	<1.0	<1.0 t
SP-D	30-Sep-94	NA	NA	NA	NA	2.5	2.5	<1.0	<1.0 t
SP-D	06-Dec-94	NA	NA	NA	NA	1.4	5.5	4.0	<1.0 t
SP-E	30-Sep-94	NA	NA	NA	NA	2.8	2.6	<1.0	<1.0 t
SP-E	06-Dec-94	NA	NA	NA	NA	1.8	4.2	<1.0	<1.0 t

(NA) Not Analyzed
(*) Sample collected by East Bay Municipal Utility District
(**) Sampled collected to monitor the water from the East Parcel.
B - benzene, T - toluene, E - ethylbenzene, X - xylenes
(PCE) perchloroethylene
(TCE) trichloroethylene
(VC) vinyl chloride
(1,2-DCE) 1,2-Dichloroethene (Total)
t trans-1,2-Dichloroethene

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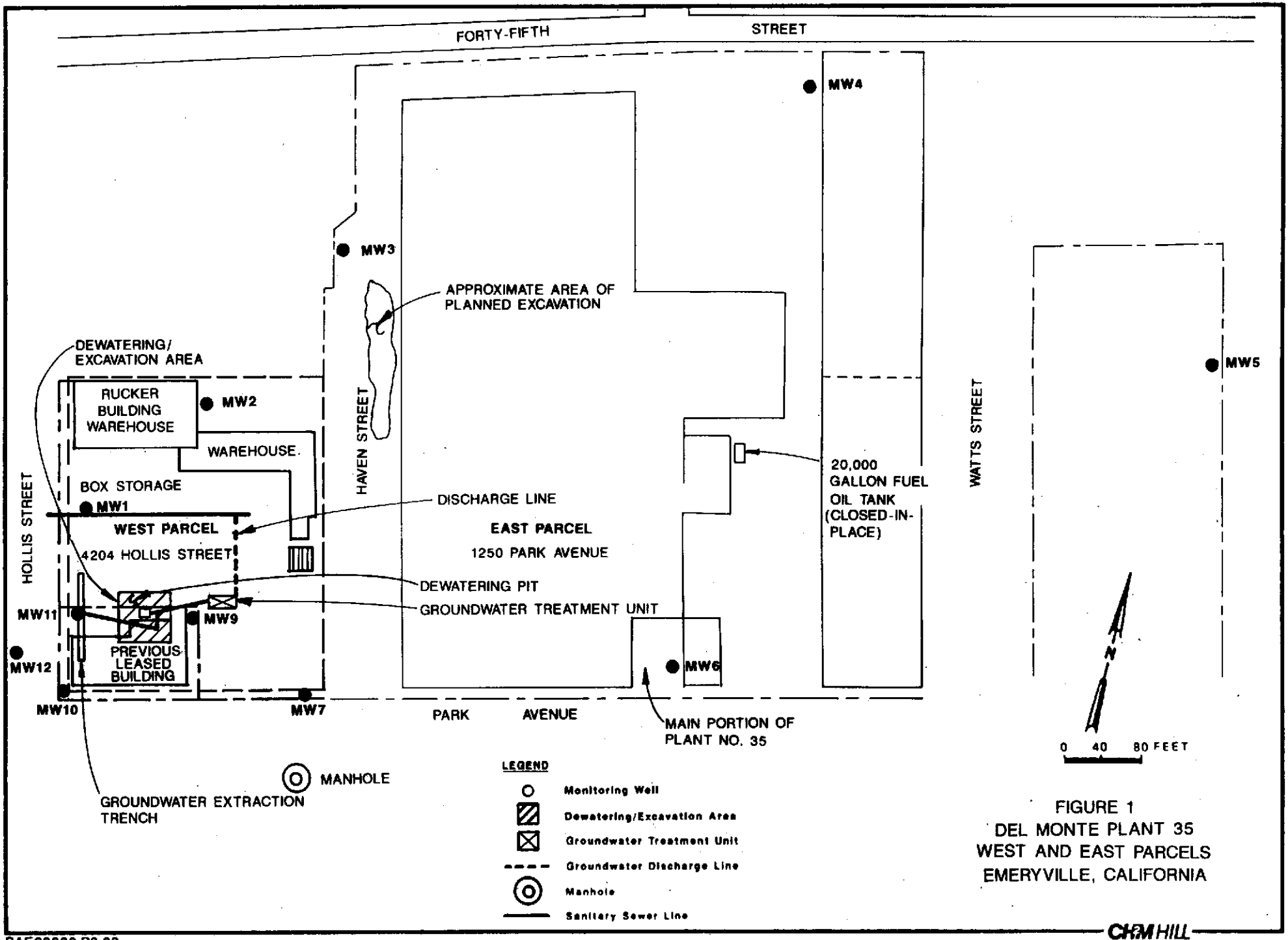


FIGURE 1
DEL MONTE PLANT 35
WEST AND EAST PARCELS
EMERYVILLE, CALIFORNIA

CH2M HILL

BAE26830.P2.03

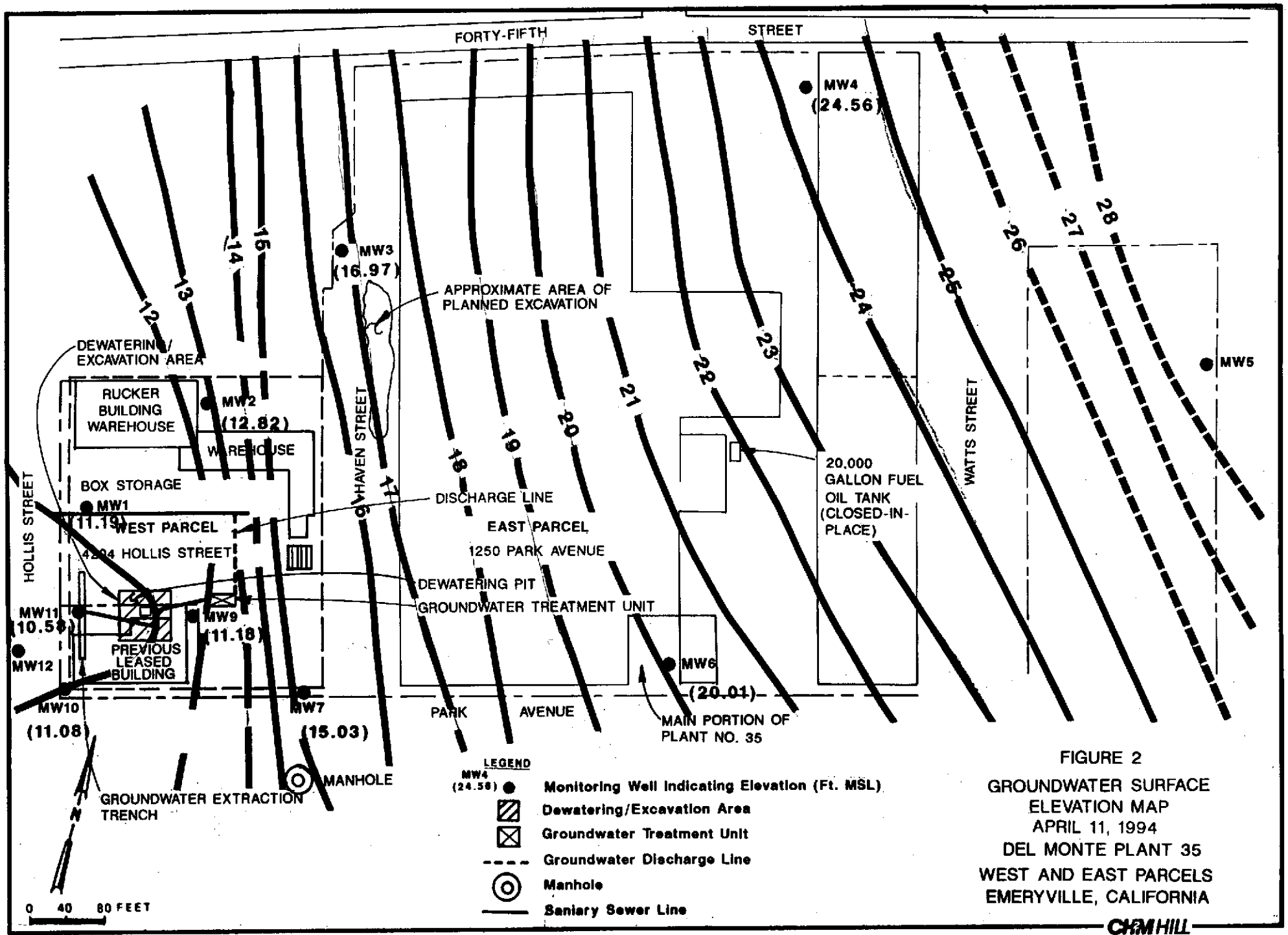
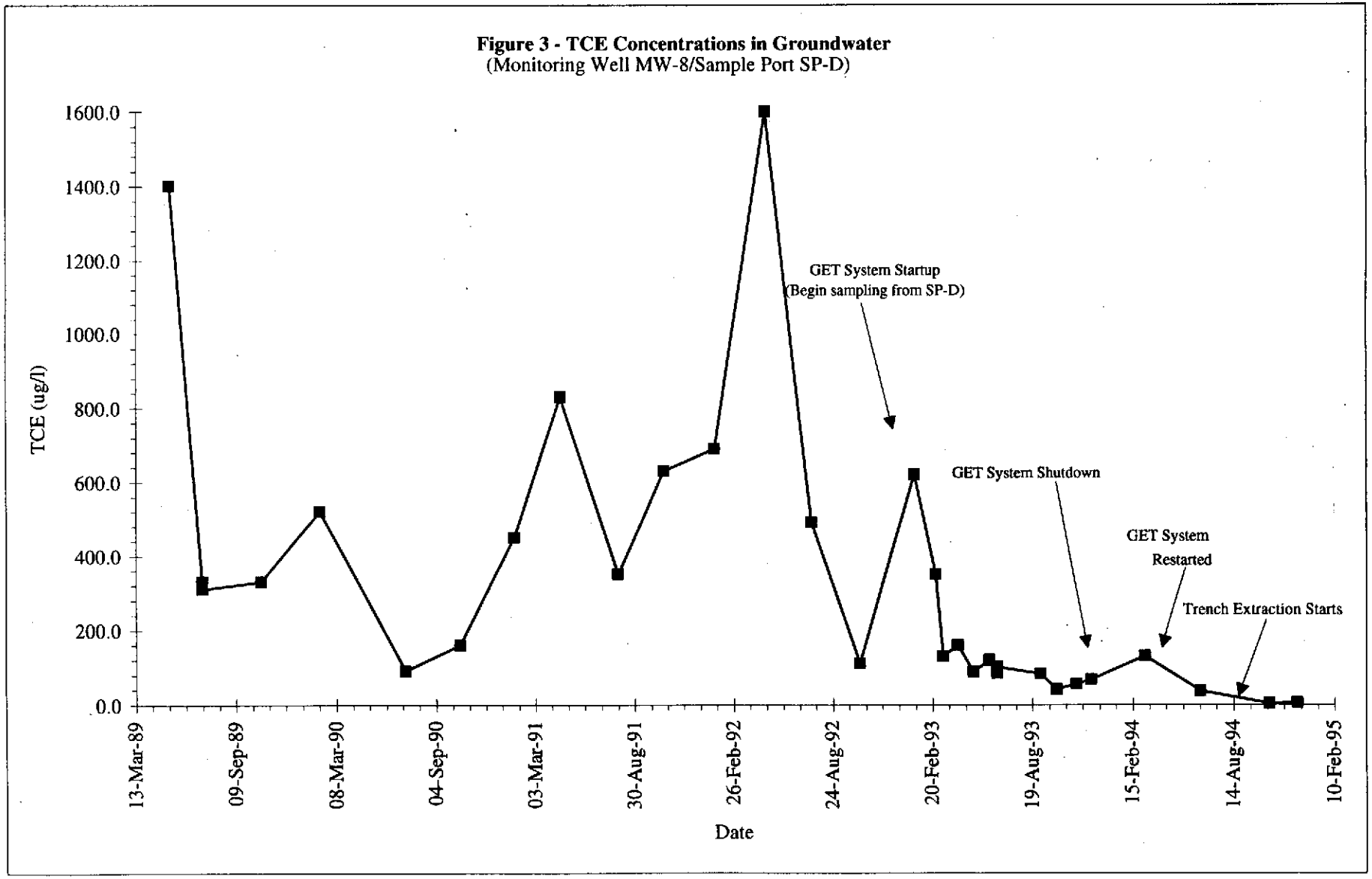


FIGURE 2
GROUNDWATER SURFACE ELEVATION MAP
APRIL 11, 1994
DEL MONTE PLANT 35
WEST AND EAST PARCELS
EMERYVILLE, CALIFORNIA

CH2MHILL

BAE26830.P2.03

Figure 3 - TCE Concentrations in Groundwater
(Monitoring Well MW-8/Sample Port SP-D)



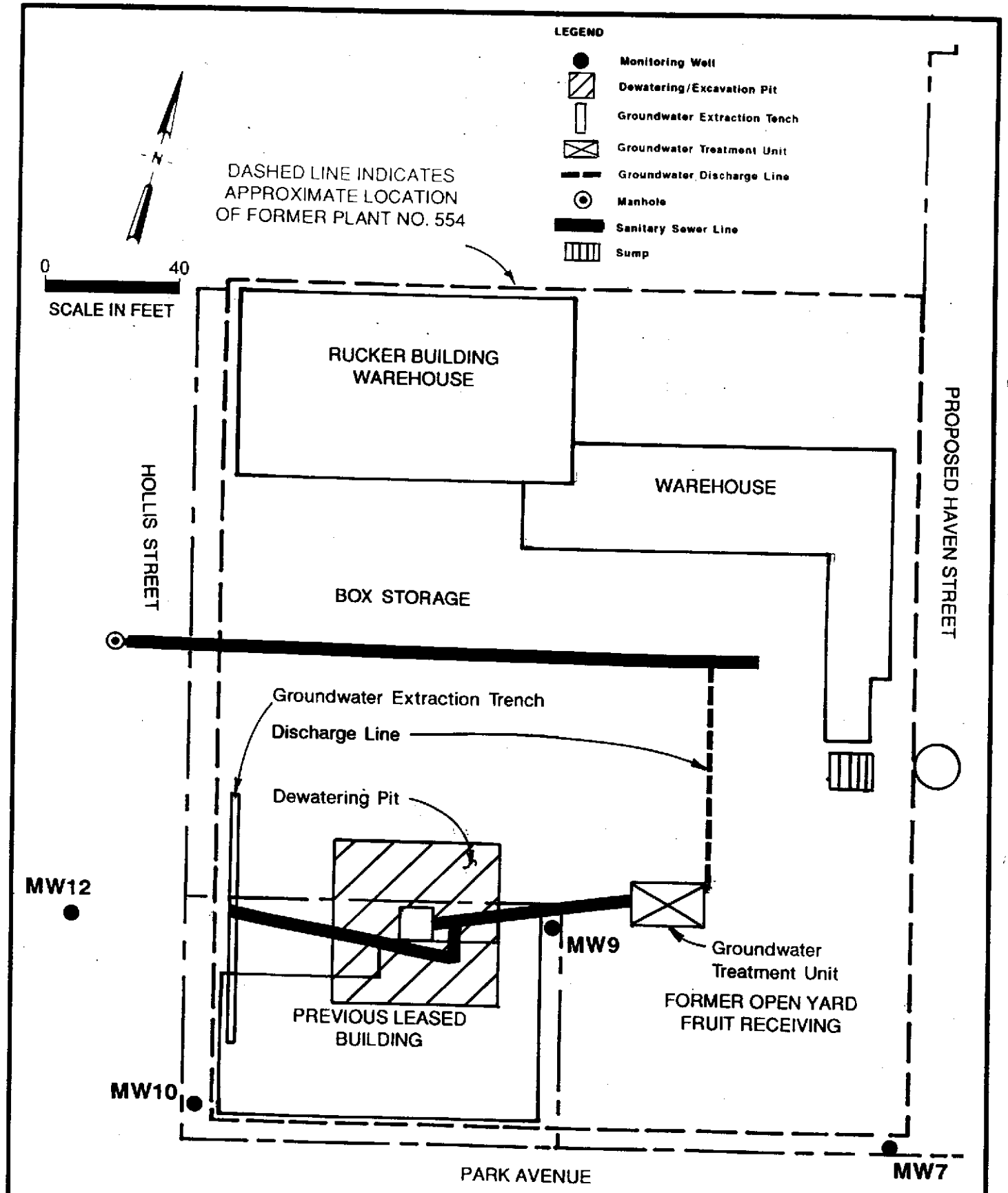
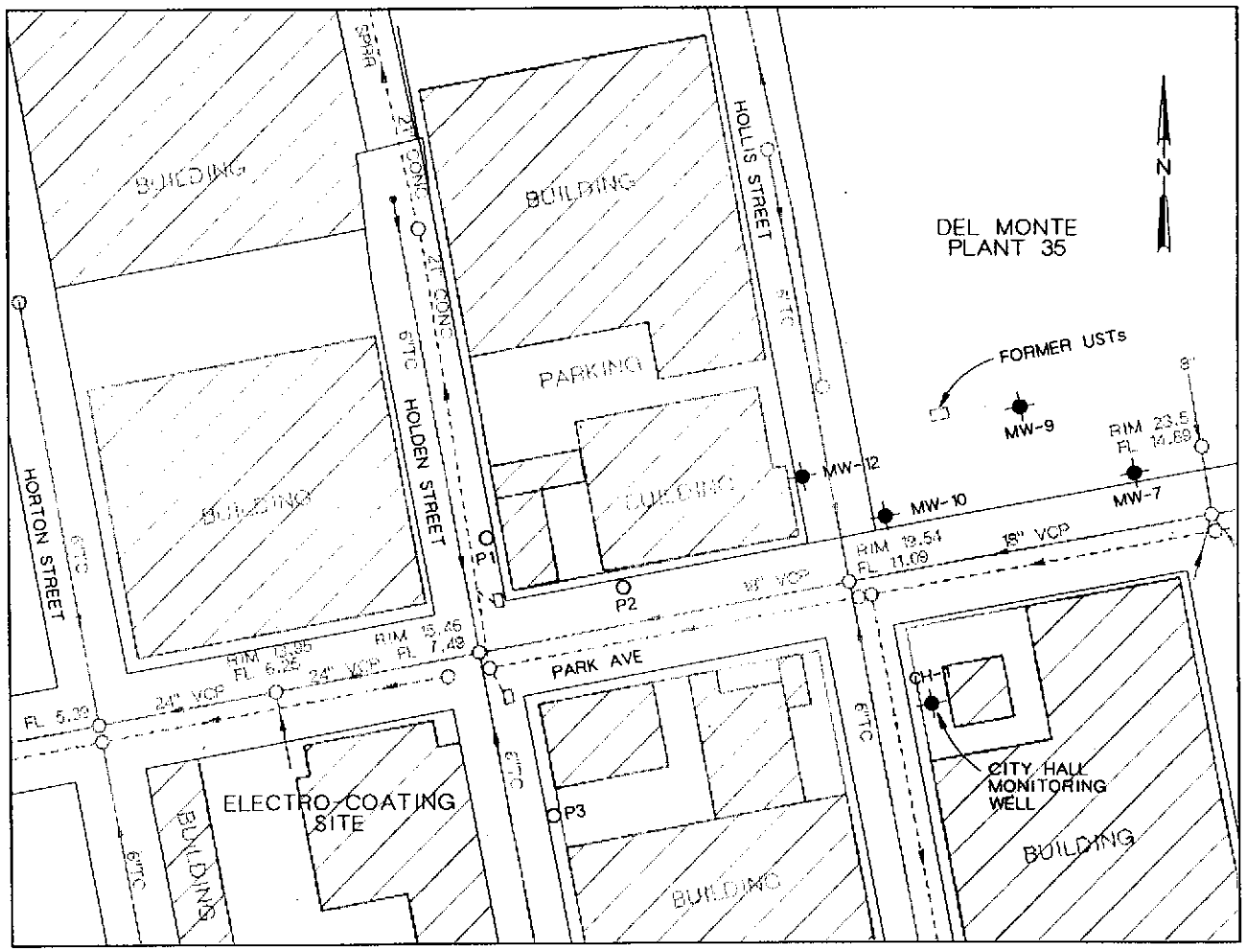


FIGURE 4
DEL MONTE PLANT 35
GROUNDWATER EXTRACTION SYSTEM
Emeryville, California



LEGEND:

- APPROXIMATE BUILDING LOCATION
- MW-11 EXISTING MONITORING WELL
- P-1 PIEZOMETER

FIGURE 5
PIEZOMETER LOCATIONS
DEL MONTE PLANT 35
EMERYVILLE, CALIFORNIA

CH2MHILL

H:*SFO28830*28830F05.DGN

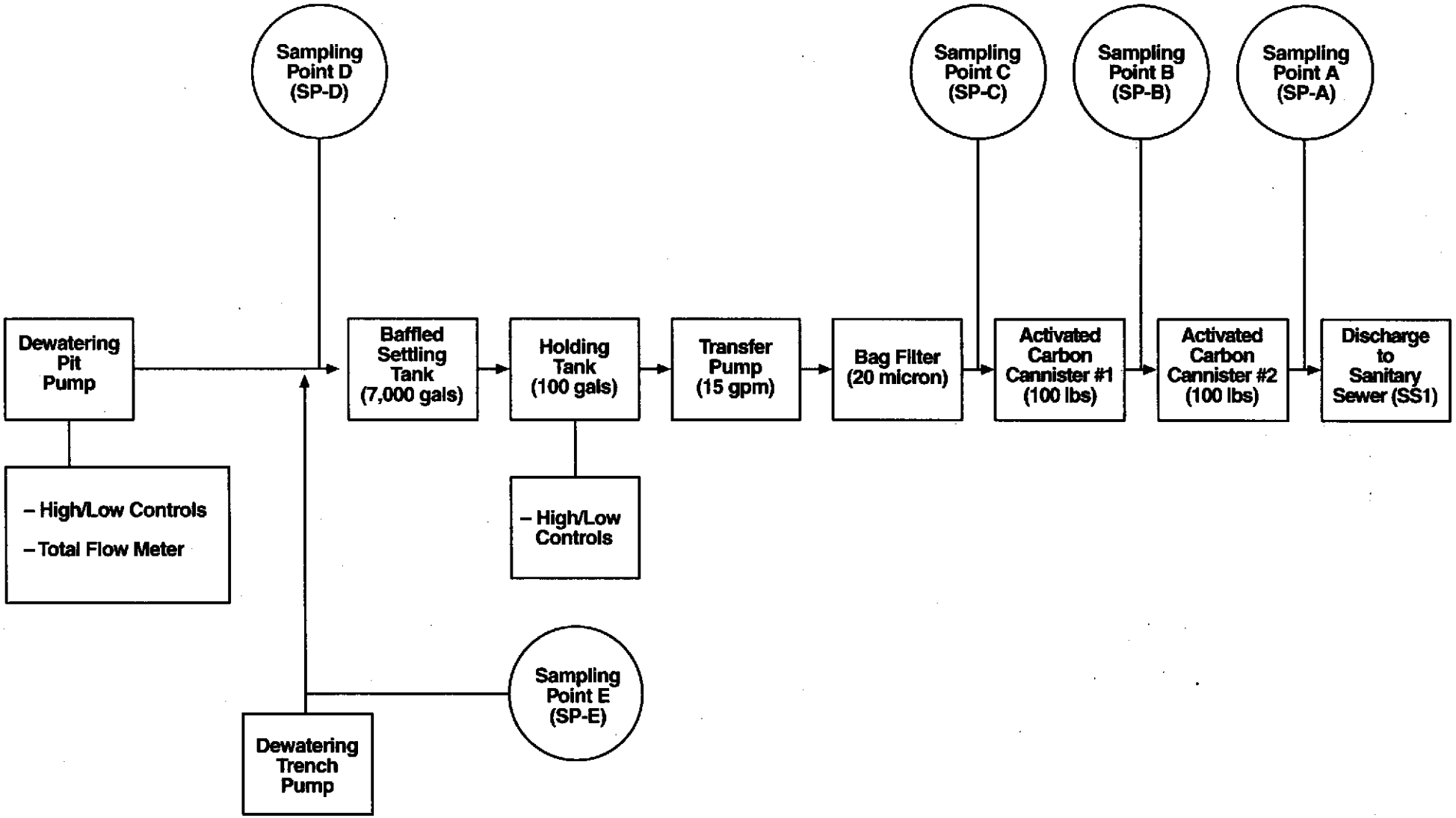


Figure 6
DEL MONTE PLANT 35
GROUNDWATER TREATMENT UNIT

ATTACHMENT A

Analytical Laboratory Reports

QUALITY ANALYTICAL
LABORATORIES, INC.

December 20, 1994

Mr. Peter Schoen
Decon Environmental Services
23490 Connecticut St.
Hayward, CA 94545

RE: Analytical Data for: **Del Monte**
Laboratory Reference Number: **R9186**

Dear Mr. Schoen:

On **December 8, 1994**, QAL, Inc. received samples with a request for analysis. The analytical results and associated quality control data are enclosed.

It is our policy to store your samples for 30 days from the date of this letter. If extended storage is required, special arrangements can be accommodated upon early notification. The disposition of samples identified as hazardous will require special handling and you will be contacted if necessary.

QAL, Inc. appreciates your business and looks forward to serving you again. If you have any questions concerning your report or need any additional information, please call me at **(916) 244-5227**.

Sincerely,

Bryan Jones

Bryan Jones
Project Manager/Client Services

Enclosures

xc: Mr. Bern Baumgartner/SFO

TABLE OF CONTENTS

QAL Reference No. R9186

Quality Analytical Laboratories Inc

5090 Caterpillar Road,
Redding, CA 96003-1412

916 244-5227
Fax No. 916 244-4109

ORGANIC DATA QUALIFIERS

U -- Indicates the compound was analyzed for but not detected. The number adjacent to the "U" qualifier indicates the reporting limit for that compound. The reporting limit can vary from sample to sample depending on dilution factors or percent moisture adjustment when indicated.

J -- Indicates an estimated value. It is used when the data indicates the presence of a compound below the stated reporting limit.

C -- This flag applies to GC analytes only. The "C" flag indicates the presence of this compound has been confirmed by GC/MS analysis.

B -- This flag is used when the analyte is found in the associated blank as well as the sample. This notation indicates possible blank contamination and suggests the data user evaluate these compounds and their amounts carefully.

E -- This qualifier indicates that the value reported exceeds the linear calibration range for that compound. Therefore, the sample should be reanalyzed at an appropriate dilution. The "E" qualified amount is an estimated concentration, and the results of the dilution will be reported on a separate Form I.

D -- This qualifier indicates compounds which have been identified during a diluted reanalysis. "D" qualifiers are used for samples that have been analyzed initially at a lesser dilution than required for accurate quantitation.

P -- This qualifier is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".

N -- This qualifier indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the "N" qualifier is not used.

A -- This qualifier indicates that a TIC is a suspected aldol-condensation product.

Quality Analytical Laboratories Inc.
5090 Caterpillar Road.
Redding, CA 96003-1412
916 244-5227
Fax No. 916 244-4109

ORGANIC LAB SAMPLE ID QUALIFIERS

The qualifiers that may be appended to the Lab Sample ID for organic analyses are defined below:

DL Dilution Run. Indicates the sample contained compounds exceeding the calibration range. The sample was diluted and re-analyzed. Both results are reported.

R Rerun. The sample was re-analyzed. The "R" is not used if the sample was also re-extracted.

RE Re-extraction Analysis. The sample was re-extracted and re-analyzed.

MS Matrix Spike (may be followed by a digit to indicate multiple matrix spikes within a sample set)

MSD Matrix Spike Duplicate (may be followed by a digit to indicate multiple matrix spike duplicates within a sample set)

DUP Duplicate extraction and analysis. The sample was extracted and analyzed in duplicate.

Quality Analytical Laboratories Inc.
5090 Caterpillar Road, i
Redding, CA 96003-1412
916 244-5227
Fax No. 916 244-410

ORGANIC ANALYSIS METHODS

✓ Check appropriate analysis method(s) and/or preparation method(s)

QAL Lab Reference No. R9186

Parameter		Method	Method Source
Halogenated Volatile Organics	☒	601	40 CFR 136
	☐	5030A/8010A	SW-846, 3rd Ed.
Aromatic Volatile Organics	☐	602	40 CFR 136
	☐	5030A/8020	SW-846, 3rd Ed.
Phenols - Determinative	☐	604	40 CFR 136
	☐	8040A	SW-846, 3rd Ed.
- *Extraction*	☐	3520A/3550	SW-846, 3rd Ed.
- *Clean-Up*	☐	3640/3650A	SW-846, 3rd Ed.
Chlor. Pest./PCB - Determinative	☐	608	40 CFR 136
	☐	8080	SW-846, 3rd Ed.
	☐	CLP	SOW OLM01.9
- *Extraction*	☐	3520A/3550	SW-846, 3rd Ed.
- *Clean-Up*	☐	3620A/3640/3660A	SW-846, 3rd Ed.
Organo-P Pesticides - Determinative	☐	8140A	SW-846, 3rd Ed.
- *Extraction*	☐	3520A/3550	SW-846, 3rd Ed.
- *Clean-Up*	☐	3620A/3640	SW-846, 3rd Ed.
Chlorinated Herbicides	☐	8150A	SW-846, 3rd Ed.
Volatile Organics	☐	624	40 CFR 136
	☐	524.2	EPA-600/4-88-039, 10/93
	☐	8240A	SW-846, 3rd Ed.
	☐	CLP	SOW OLM01.9
Volatile Organics, Low Level	☐	CLP	Superfund Analytical Methods for Low Concentration Water for Organics Analysis. 10/92
Volatile Organics by GC/MS	☐	8260	SW-846. 3rd Ed.
Semivolatile Org.- Determinative	☐	625	40 CFR 136
	☐	8270A	SW-846, 3rd Ed.
	☐	CLP	SOW OLM01.9
- *Extraction*	☐	3520A/3550/3580A	SW-846, 3rd Ed.
- *Clean-Up*	☐	3640/3650A/3660A	SW-846, 3rd Ed.

Each of the extraction methods indicated applies only to samples of the appropriate matrix.

The clean-up methods indicated do not necessarily apply to all samples in the deliver group. Refer to the case narrative or sample report for specific information.

Parameter	Method	Method Source
PAH - Determinative	☐ 610	40 CFR 136
	☐ 8310	SW-846, 3rd Ed.
- *Extraction*	☐ 3520A/3550	SW-846, 3rd Ed.
- *Clean-Up*	☐ 3630A	SW-846, 3rd Ed.
Chlorinated Phenols (CPAR)	☐ Internal	CPAR Project Report 825-1, Canadian Pulp and Paper Research Institute, 3/79
PCBs/Oil	☐ Internal	EPA-600/4-81-045
TFH/Gasoline	☐ CA LUFT	CA LUFT Manual, 5/88
	☐ AK Modified GRO	ADEC PUBL-AK 101, 2/93
	☐ WI Modified GRO	WI DNR PUBL-SW-140, 7/93
TFH/Diesel	☐ CA LUFT	CA LUFT Manual, 5/88
	☐ AK Modified DRO	ADEC PUBL-AK 101,1/93
	☐ WI Modified DRO	WI DNR PUBL-SW-141, 7/93
Formaldehyde	☐ 8315	SW-846 3rd Ed., Proposed Update II, 11/92
TCLP Extraction	☐ 1311	SW-846, 3rd Ed.

Each of the extraction methods indicated applies only to samples of the appropriate matrix.

The clean-up methods indicated do not necessarily apply to all samples in the deliver group. Refer to the case narrative or sample report for specific information.

Sample ID Cross-reference Table

QAL, Inc. Lab Sample ID		Client Sample ID	Collect Date	Sample Matrix	Additional Description
R9186001	FS	SP-A	12/06/94	Water	
R9186002	FS	SP-B	12/06/94	Water	
R9186003	FS	SP-D	12/06/94	Water	
R9186004	FS	SP-E	12/06/94	Water	

Quality Analytical Laboratories Inc.
5090 Caterpillar Road, Redding, CA 96003-1412
916 244-5221
Fax No. 916 244-4109

CASE NARRATIVE FOR
HALOCARBONS

LABORATORY :	QAL	**CLIENT** :	DECON ENVIRONMENTAL Del Monte #35
CASE NO. :	N/A	**CONTRACT NO.**:	N/A
LAB REF. NO.:	R9186	**SDG NO.** :	R9186

I. RECEIPT

A. Date: December 8, 1994

B. Sample Information:

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
R9186001	SP-A	WATER	12/06/94	N/A	12/16/94
R9186002	SP-B	WATER	12/06/94	N/A	12/16/94
R9186003	SP-D	WATER	12/06/94	N/A	12/16/94
R9186004	SP-E	WATER	12/06/94	N/A	12/16/94
VWB11216	VWB11216	WATER	N/A	N/A	12/16/94

C. Documentation Exceptions : No exceptions were encountered.

II. EXTRACTION

A. Holding Times: Medium level protocol was not performed; therefore, holding time is not applicable.

B. Extraction Exceptions : Not applicable.

III. ANALYSIS

A. Holding Times: Holding times were met.

B. Analytical Exceptions : No exceptions were encountered.

IV. QUALITY CONTROL

A. Method Blank : The associated method blank met QC acceptance criteria.

B. Surrogate Recoveries : The surrogate recoveries met QC acceptance criteria.

kdh.020

Report of Analytical Data - Halocarbons

Client:	DECON ENVIRONMENTAL	Laboratory:	QAL	Date Sampled:	12/06/94
Project:	Del Monte #35	Lab Sample ID:	R9186002	Date Received:	12/08/94
Proj No:	N/A	% Moisture:	N/A	Date Extracted:	N/A
Method:	EPA 601(MOD)	Dilution Factor:	1	Date Analyzed:	12/16/94
Matrix:	Water	Instrument ID:	VARIAN-3600	Analyst:	J.W.
Sampler:	P. Schoen			Date Reported:	12/20/94

Client Sample ID/Description: SP-B

CAS Number	Compound	Reporting Limit	Sample Result		Reporting Units
74-87-3	Chloromethane	1.0	U		ug/L
74-83-9	Bromomethane	1.0	U		ug/L
75-71-8	Dichlorodifluoromethane	1.0	U		ug/L
75-01-4	Vinyl chloride	1.0	U		ug/L
75-00-3	Chloroethane	1.0	U		ug/L
75-09-2	Dichloromethane	5.0	U		ug/L
75-69-4	Trichlorofluoromethane	1.0	U		ug/L
75-35-4	1,1-Dichloroethene	1.0	U		ug/L
75-34-3	1,1-Dichloroethane	1.0	U		ug/L
156-60-5	trans-1,2-Dichloroethene	1.0	U		ug/L
67-66-3	Chloroform	1.0	U		ug/L
107-06-2	1,2-Dichloroethane	1.0	U		ug/L
71-55-6	1,1,1-Trichloroethane	1.0	U		ug/L
56-23-5	Carbon tetrachloride	1.0	U		ug/L
75-27-4	Bromodichloromethane	1.0	U		ug/L
78-87-5	1,2-Dichloropropane	1.0	U		ug/L
10061-01-5	cis-1,3-Dichloropropene	1.0	U		ug/L
79-01-6	Trichloroethene	1.0	4.8		ug/L
124-48-1	Dibromochloromethane	1.0	U		ug/L
79-00-5	1,1,2-Trichloroethane	1.0	U		ug/L
10061-02-6	trans-1,3-Dichloropropene	1.0	U		ug/L
75-25-2	Bromoform	1.0	U		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U		ug/L
127-18-4	Tetrachloroethene	1.0	U		ug/L
108-90-7	Chlorobenzene	1.0	U		ug/L
541-73-1	1,3-Dichlorobenzene	1.0	U		ug/L
95-50-1	1,2-Dichlorobenzene	1.0	U		ug/L
106-46-7	1,4-Dichlorobenzene	1.0	U		ug/L
110-56-5	1,4-Dichlorobutane-SS		104		% rec.

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Approved by: Brian Glenn

FORM I

kdh.020

Report of Analytical Data - Halocarbons

Client:	DECON ENVIRONMENTAL	Laboratory:	QAL	Date Sampled:	12/06/94
Project:	Del Monte #35	Lab Sample ID:	R9186003	Date Received:	12/08/94
Proj No:	N/A	% Moisture:	N/A	Date Extracted:	N/A
Method:	EPA 601(MOD)	Dilution Factor:	1	Date Analyzed:	12/16/94
Matrix:	Water	Instrument ID:	VARIAN-3600	Analyst:	J.W.
Sampler:	P. Schoen			Date Reported:	12/20/94

Client Sample ID/Description: SP-D

CAS Number	Compound	Reporting Limit	Sample Result	Reporting Units
74-87-3	Chloromethane	1.0	U	ug/L
74-83-9	Bromomethane	1.0	U	ug/L
75-71-8	Dichlorodifluoromethane	1.0	U	ug/L
75-01-4	Vinyl chloride	1.0	U	ug/L
75-00-3	Chloroethane	1.0	U	ug/L
75-09-2	Dichloromethane	5.0	U	ug/L
75-69-4	Trichlorofluoromethane	1.0	U	ug/L
75-35-4	1,1-Dichloroethene	1.0	U	ug/L
75-34-3	1,1-Dichloroethane	1.0	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1.0	U	ug/L
67-66-3	Chloroform	1.0	U	ug/L
107-06-2	1,2-Dichloroethane	1.0	U	ug/L
71-55-6	1,1,1-Trichloroethane	1.0	U	ug/L
56-23-5	Carbon tetrachloride	1.0	U	ug/L
75-27-4	Bromodichloromethane	1.0	U	ug/L
78-87-5	1,2-Dichloropropane	1.0	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.0	U	ug/L
79-01-6	Trichloroethene	1.0	5.5	ug/L
124-48-1	Dibromochloromethane	1.0	U	ug/L
79-00-5	1,1,2-Trichloroethane	1.0	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1.0	U	ug/L
75-25-2	Bromoform	1.0	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	ug/L
127-18-4	Tetrachloroethene	1.0	1.4	ug/L
108-90-7	Chlorobenzene	1.0	U	ug/L
541-73-1	1,3-Dichlorobenzene	1.0	U	ug/L
95-50-1	1,2-Dichlorobenzene	1.0	U	ug/L
106-46-7	1,4-Dichlorobenzene	1.0	U	ug/L
110-56-5	1,4-Dichlorobutane-SS		98	% rec.

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Approved by: Brian Ellis

FORM I

kdh.020

Report of Analytical Data - Halocarbons

Client: DECON ENVIRONMENTAL
Project: Del Monte #35
Proj No: N/A
Method: EPA 601(MOD)
Matrix: Water
Sampler: P. Schoen

Laboratory: QAL
Lab Sample ID: R9186004
% Moisture: N/A
Dilution Factor: 1
Instrument ID: VARIAN-3600

Date Sampled: 12/06/94
Date Received: 12/08/94
Date Extracted: N/A
Date Analyzed: 12/16/94
Analyst: J.W.
Date Reported: 12/20/94

Client Sample ID/Description: SP-E

CAS Number	Compound	Reporting Limit	Sample Result		Reporting Units
74-87-3	Chloromethane	1.0	U		ug/L
74-83-9	Bromomethane	1.0	U		ug/L
75-71-8	Dichlorodifluoromethane	1.0	U		ug/L
75-01-4	Vinyl chloride	1.0	U		ug/L
75-00-3	Chloroethane	1.0	U		ug/L
75-09-2	Dichloromethane	5.0	U		ug/L
75-69-4	Trichlorofluoromethane	1.0	U		ug/L
75-35-4	1,1-Dichloroethene	1.0	U		ug/L
75-34-3	1,1-Dichloroethane	1.0	U		ug/L
156-60-5	trans-1,2-Dichloroethene	1.0	U		ug/L
67-66-3	Chloroform	1.0	U		ug/L
107-06-2	1,2-Dichloroethane	1.0	U		ug/L
71-55-6	1,1,1-Trichloroethane	1.0	U		ug/L
56-23-5	Carbon tetrachloride	1.0	U		ug/L
75-27-4	Bromodichloromethane	1.0	U		ug/L
78-87-5	1,2-Dichloropropane	1.0	U		ug/L
10061-01-5	cis-1,3-Dichloropropene	1.0	U		ug/L
79-01-6	Trichloroethene	1.0	4.2		ug/L
124-48-1	Dibromochloromethane	1.0	U		ug/L
79-00-5	1,1,2-Trichloroethane	1.0	U		ug/L
10061-02-6	trans-1,3-Dichloropropene	1.0	U		ug/L
75-25-2	Bromoform	1.0	U		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U		ug/L
127-18-4	Tetrachloroethene	1.0	1.8		ug/L
108-90-7	Chlorobenzene	1.0	U		ug/L
541-73-1	1,3-Dichlorobenzene	1.0	U		ug/L
95-50-1	1,2-Dichlorobenzene	1.0	U		ug/L
106-46-7	1,4-Dichlorobenzene	1.0	U		ug/L
110-56-5	1,4-Dichlorobutane-SS		101		% rec.

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Approved by: Brian Hess

FORM I

kdh.020

Report of Analytical Data - Halocarbons

Client:	N/A	Laboratory:	QAL	Date Sampled:	N/A
Project:	N/A	Lab Sample ID:	VWB11216	Date Received:	N/A
Proj No:	N/A	% Moisture:	N/A	Date Extracted:	N/A
Method:	EPA 601(MOD)	Dilution Factor:	1	Date Analyzed:	12/16/94
Matrix:	Water	Instrument ID:	VARIAN-3600	Analyst:	J.W.
Sampler:	N/A			Date Reported:	12/20/94

Client Sample ID/Description: VWB11216

CAS Number	Compound	Reporting Limit	Method Blank Result		Reporting Units
74-87-3	Chloromethane	1.0	U		ug/L
74-83-9	Bromomethane	1.0	U		ug/L
75-71-8	Dichlorodifluoromethane	1.0	U		ug/L
75-01-4	Vinyl chloride	1.0	U		ug/L
75-00-3	Chloroethane	1.0	U		ug/L
75-09-2	Dichloromethane	5.0	U		ug/L
75-69-4	Trichlorofluoromethane	1.0	U		ug/L
75-35-4	1,1-Dichloroethene	1.0	U		ug/L
75-34-3	1,1-Dichloroethane	1.0	U		ug/L
156-60-5	trans-1,2-Dichloroethene	1.0	U		ug/L
67-66-3	Chloroform	1.0	U		ug/L
107-06-2	1,2-Dichloroethane	1.0	U		ug/L
71-55-6	1,1,1-Trichloroethane	1.0	U		ug/L
56-23-5	Carbon tetrachloride	1.0	U		ug/L
75-27-4	Bromodichloromethane	1.0	U		ug/L
78-87-5	1,2-Dichloropropane	1.0	U		ug/L
10061-01-5	cis-1,3-Dichloropropene	1.0	U		ug/L
79-01-6	Trichloroethene	1.0	U		ug/L
124-48-1	Dibromochloromethane	1.0	U		ug/L
79-00-5	1,1,2-Trichloroethane	1.0	U		ug/L
10061-02-6	trans-1,3-Dichloropropene	1.0	U		ug/L
75-25-2	Bromoform	1.0	U		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U		ug/L
127-18-4	Tetrachloroethene	1.0	U		ug/L
108-90-7	Chlorobenzene	1.0	U		ug/L
541-73-1	1,3-Dichlorobenzene	1.0	U		ug/L
95-50-1	1,2-Dichlorobenzene	1.0	U		ug/L
106-46-7	1,4-Dichlorobenzene	1.0	U		ug/L
110-56-5	1,4-Dichlorobutane-SS		100		% rec.

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Approved by: Brian Hollis

FORM I

kdh.020

CH2M HILL

QUALITY ANALYTICAL LABORATORIES

CHAIN OF CUSTODY RECORD AND AGREEMENT TO PERFORM SERVICES

CH2M HILL Project #: ..... Purchase Order #: 943

Project Name: DEL AMONTE PLANT 35, EMERYVILLE — DECON # 943

Company Name/CH2M HILL Office: DECON ENVIRONMENTAL

Project Manager & Phone #: Mr. [X] P. SCHOEN; Ms. [ ]; Dr. [ ] 510-732-6444

Report Copy to: P. SCHOEN - DECON; B. BAUMGARTNER - HILL SFO

Requested Completion Date: STD TAT

Sampling Requirements: SDWA [ ] NPDES [ ] RCRA [ ] OTHER ____

Sample Disposal: Dispose [X] Return [X]

Sampling Date	Sampling Time	Type COMP	Type GRAB	Matrix WATER	Matrix SOIL	CLIENT SAMPLE ID (9 CHARACTERS)	# OF CONTAINERS	LAB TEST CODES: EPA 601	ANALYSES REQUESTED	REMARKS
12.6.94	10:52	X		X		S P - A	3	X		PH<2
	10:58	X		X		S P - B	3	X		
	11:00	X		X		S P - D	3	X		
	11:02	X		X		S P - E	3	X		

LAB TEST CODES: NH, H2

SHADED AREA - FOR LAB USE ONLY

Lab 1 #: R9186 — Lab 2 #:

Quote # — Kit Request #

Project #

No. of Samples — Page — of

COC Rev. — Login — LIMS Yr. — Acct. Dsn

LAB 1 ID — LAB 2 ID

Sampled By & Title (Please sign and print name)	Date/Time	Relinquished By (Please sign and print name)	Date/Time
P. Schoen P. SCHOEN PROJ. MGR.	12.6.94 12:25	P. Schoen P. SCHOEN	12.6.94 12:25
Received By (Please sign and print name)	Date/Time	Relinquished By (Please sign and print name)	Date/Time
Received By (Please sign and print name)	Date/Time	Relinquished By (Please sign and print name)	Date/Time
Received By (Please sign and print name)	Date/Time	Shipped Via: (UPS) BUS Fed-Ex Hand Other ____	Shipping #
Work Authorized By (Please sign and print name)	Remarks		

HAZWRAP/NESSA: Y N

QC Level: 1 2 3 Other: ____

COC Rec X — ICE Y

Ana Req X — TEMP 7°C

Cust Seal X — Ph <2

800000

Instructions and Agreement Provisions on Reverse Side

DISTRIBUTION: ORIGINAL - LAB, Yellow - LAB, Pink - Client

[redacted] REV 1 [redacted] RM 3 [redacted]

QAL
QUALITY ANALYTICAL
LABORATORIES, INC.

December 22, 1994

Mr. Peter Schoen
Decon Environmental Services
23490 Connecticut St.
Hayward, CA 94545

RE: Analytical Data for: **Del Monte**
Laboratory Reference Number: **R9200**

Dear Mr. Schoen:

On **December 9, 1994**, QAL, Inc. received samples with a request for analysis. The analytical results and associated quality control data are enclosed.

It is our policy to store your samples for 30 days from the date of this letter. If extended storage is required, special arrangements can be accommodated upon early notification. The disposition of samples identified as hazardous will require special handling and you will be contacted if necessary.

QAL, Inc. appreciates your business and looks forward to serving you again. If you have any questions concerning your report or need any additional information, please call me at **(916) 244-5227**.

Sincerely,

Bryan Jones

Bryan Jones
Project Manager/Client Services

Enclosures

xc: Mr. Bern Baumgartner

TABLE OF CONTENTS

QAL Reference No. R9200

Quality Analytical Laboratories Inc.

5090 Caterpillar Road. Redding, CA 96003-1412

916 244-5227 Fax No. 916 244-4109

ORGANIC DATA QUALIFIERS

U -- Indicates the compound was analyzed for but not detected. The number adjacent to the "U" qualifier indicates the reporting limit for that compound. The reporting limit can vary from sample to sample depending on dilution factors or percent moisture adjustment when indicated.

J -- Indicates an estimated value. It is used when the data indicates the presence of a compound below the stated reporting limit.

C -- This flag applies to GC analytes only. The "C" flag indicates the presence of this compound has been confirmed by GC/MS analysis.

B -- This flag is used when the analyte is found in the associated blank as well as the sample. This notation indicates possible blank contamination and suggests the data user evaluate these compounds and their amounts carefully.

E -- This qualifier indicates that the value reported exceeds the linear calibration range for that compound. Therefore, the sample should be reanalyzed at an appropriate dilution. The "E" qualified amount is an estimated concentration, and the results of the dilution will be reported on a separate Form I.

D -- This qualifier indicates compounds which have been identified during a diluted reanalysis. "D" qualifiers are used for samples that have been analyzed initially at a lesser dilution than required for accurate quantitation.

P -- This qualifier is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".

N -- This qualifier indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the "N" qualifier is not used.

A -- This qualifier indicates that a TIC is a suspected aldol-condensation product.

Quality Analytical Laboratories Inc.
5090 Caterpillar Road,
Redding, CA 96003-1412
916 244-5227
Fax No. 916 244-4109

ORGANIC LAB SAMPLE ID QUALIFIERS

The qualifiers that may be appended to the Lab Sample ID for organic analyses are defined below:

DL Dilution Run. Indicates the sample contained compounds exceeding the calibration range. The sample was diluted and re-analyzed. Both results are reported.

R Rerun. The sample was re-analyzed. The "R" is not used if the sample was also re-extracted.

RE Re-extraction Analysis. The sample was re-extracted and re-analyzed.

MS Matrix Spike (may be followed by a digit to indicate multiple matrix spikes within a sample set)

MSD Matrix Spike Duplicate (may be followed by a digit to indicate multiple matrix spike duplicates within a sample set)

DUP Duplicate extraction and analysis. The sample was extracted and analyzed in duplicate.

Quality Analytical Laboratories Inc.
5090 Caterpillar Road i
Redding, CA 96003-1412
916 244-5
Fax No. 916 244-4109

ORGANIC ANALYSIS METHODS

✓ Check appropriate analysis method(s) and/or preparation method(s)

QAL Lab Reference No. R9200

Parameter		Method	Method Source
Halogenated Volatile Organics	☐	601	40 CFR 136
	☐	5030A/8010A	SW-846, 3rd Ed.
Aromatic Volatile Organics	☐	602	40 CFR 136
	☐	5030A/8020	SW-846, 3rd Ed.
Phenols - Determinative	☐	604	40 CFR 136
	☐	8040A	SW-846, 3rd Ed.
- *Extraction*	☐	3520A/3550	SW-846, 3rd Ed.
- *Clean-Up*	☐	3640/3650A	SW-846, 3rd Ed.
Chlor. Pest./PCB - Determinative	☐	608	40 CFR 136
	☐	8080	SW-846, 3rd Ed.
	☐	CLP	SOW OLM01.9
- *Extraction*	☐	3520A/3550	SW-846, 3rd Ed.
- *Clean-Up*	☐	3620A/3640/3660A	SW-846, 3rd Ed.
Organo-P Pesticides - Determinative	☐	8140A	SW-846, 3rd Ed.
- *Extraction*	☐	3520A/3550	SW-846, 3rd Ed.
- *Clean-Up*	☐	3620A/3640	SW-846, 3rd Ed.
Chlorinated Herbicides	☐	8150A	SW-846, 3rd Ed.
Volatile Organics	☐	624	40 CFR 136
	☐	524.2	EPA-600/4-88-039, 10/93
	☐	8240A	SW-846, 3rd Ed.
	☐	CLP	SOW OLM01.9
Volatile Organics, Low Level	☐	CLP	Superfund Analytical Methods for Low Concentration Water for Organics Analysis, 10/92
Volatile Organics by GC/MS	☐	8260	SW-846. 3rd Ed.
Semivolatile Org.- Determinative	☐	625	40 CFR 136
	☐	8270A	SW-846, 3rd Ed.
	☐	CLP	SOW OLM01.9
- *Extraction*	☐	3520A/3550/3580A	SW-846, 3rd Ed.
- *Clean-Up*	☐	3640/3650A/3660A	SW-846, 3rd Ed.

Each of the extraction methods indicated applies only to samples of the appropriate matrix.

The clean-up methods indicated do not necessarily apply to all samples in the deliver group. Refer to the case narrative or sample report for specific information.

Parameter	Method	Method Source
PAH - Determinative	☐ 610	40 CFR 136
	☐ 8310	SW-846, 3rd Ed.
- *Extraction*	☐ 3520A/3550	SW-846, 3rd Ed.
- *Clean-Up*	☐ 3630A	SW-846, 3rd Ed.
Chlorinated Phenols (CPAR)	☐ Internal	CPAR Project Report 825-1, Canadian Pulp and Paper Research Institute, 3/79
PCBs/Oil	☐ Internal	EPA-600/4-81-045
TFH/Gasoline	☒ CA LUFT	CA LUFT Manual, 5/88
	☐ AK Modified GRO	ADEC PUBL-AK 101, 2/93
	☐ WI Modified GRO	WI DNR PUBL-SW-140, 7/93
TFH/Diesel	☒ CA LUFT	CA LUFT Manual, 5/88
	☐ AK Modified DRO	ADEC PUBL-AK 101,1/93
	☐ WI Modified DRO	WI DNR PUBL-SW-141, 7/93
Formaldehyde	☐ 8315	SW-846 3rd Ed., Proposed Update II, 11/92
TCLP Extraction	☐ 1311	SW-846, 3rd Ed.

Each of the extraction methods indicated applies only to samples of the appropriate matrix.

The clean-up methods indicated do not necessarily apply to all samples in the deliver group. Refer to the case narrative or sample report for specific information.

Sample ID Cross-reference Table

QAL, Inc. Lab Sample ID		Client Sample ID	Collect Date	Sample Matrix	Additional Description
R9200001	FS	SP-A	12/08/94	Water	
R9200002	FS	SP-B	12/08/94	Water	

Quality Analytical Laboratories Inc.
5090 Caterpillar Road, Redding, CA 96003-1412
916 244-5227
Fax No. 916 244-4109

CASE NARRATIVE
GC VOLATILE SAMPLES

LABORATORY: QAL, Inc. CLIENT: Decon DelMonte

CASE NO. : N/A CONTRACT NO.: N/A

LAB NO. : R9200-001-002 SDG NO.: R9200

I. RECEIPT

A. DATE: DECEMBER 12, 1994

B. SAMPLE INFORMATION

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	EXTRACTION DATE	ANALYSIS DATE
R9200001	SP-A	WATER	12/08/94	N/A	12/14/94
R9200002	SP-B	WATER	12/08/94	N/A	12/14/94
WGV64N1401B	VBLK001	WATER	N/A	N/A	12/14/94

C. Documentation Exceptions: No exceptions were encountered unless a Sample Receipt Exception Report is attached to the Chain-of-Custody included with this data package.

II. EXTRACTION

A. Holding Times: Not applicable.

B. Extraction Exceptions: Not applicable.

III. ANALYSIS

A. Holding times: All holding times were met.

B. Analytical Exceptions: The samples contained one or more non-target compounds.

IV. QUALITY CONTROL

A. Method Blank: All blanks met acceptable QC criteria.

B. Surrogate Recoveries: All samples met acceptable QC criteria.

C. Matrix Spike Results: All samples met acceptable QC criteria.

V. I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, except for the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Herb Kelly 12/16/94

Herb Kelly Date
Organic Division Manager

CLIENT SAMPLE ID

SP-A

REPORT OF ANALYTICAL RESULTS
PURGEABLE HALOCARBONS

Date collected:	12/8/94	Sample Group:	R9200
Date extracted:	N/A	Lab Sample ID:	R9200001
Date analyzed:	12/14/94	Lab file 1 ID:	N14M021
Matrix:	Water	Lab file 2 ID:	N14N021
Method:	601M	Dilution Factor:	1.0000
% Moisture:	100	Reporting units:	ug/L

CAS NUMBER	COMPOUND NAME	REPORTING LIMIT	RESULT
74-87-3	Chloromethane	1.0	U
74-83-9	Bromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
75-00-3	Chloroethane	1.0	U
75-09-2	Methylene chloride (Dichloromethane)	5.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
75-27-4	Bromodichloromethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
79-01-6	Trichloroethene	1.0	2.1
124-48-1	Dibromochloromethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-90-7	Chlorobenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
	SURROGATE-Fluorobenzene (QC Limits - 61 to 133%)		108 % Rec.

CLIENT SAMPLE ID

SP-B

REPORT OF ANALYTICAL RESULTS
PURGEABLE HALOCARBONS

Date collected:	12/8/94	Sample Group:	R9200
Date extracted:	N/A	Lab Sample ID:	R9200002
Date analyzed:	12/14/94	Lab file 1 ID:	N14M019
Matrix:	Water	Lab file 2 ID:	N14N019
Method:	601M	Dilution Factor:	1.0000
% Moisture:	100	Reporting units:	ug/L

CAS NUMBER	COMPOUND NAME	REPORTING LIMIT	RESULT
74-87-3	Chloromethane	1.0	U
74-83-9	Bromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
75-00-3	Chloroethane	1.0	U
75-09-2	Methylene chloride (Dichloromethane)	5.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
75-27-4	Bromodichloromethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
79-01-6	Trichloroethene	1.0	8.6
124-48-1	Dibromochloromethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	6.2
108-90-7	Chlorobenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
	SURROGATE-Fluorobenzene (QC Limits - 61 to 133%)		110 % Rec.

CLIENT SAMPLE ID

VBLK001

REPORT OF ANALYTICAL RESULTS
PURGEABLE HALOCARBONS

Date collected:	N/A	Sample Group:	LABQC
Date extracted:	N/A	Lab Sample ID:	WGV64N1402B
Date analyzed:	12/14/94	Lab file 1 ID:	N14N003
Matrix:	Water	Lab file 2 ID:	N14N003
Method:	601M	Dilution Factor:	1.0000
% Moisture:	100	Reporting units:	ug/L

CAS NUMBER	COMPOUND NAME	REPORTING LIMIT	RESULT
74-87-3	Chloromethane	1.0	U
74-83-9	Bromomethane	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-01-4	Vinyl chloride	1.0	U
75-00-3	Chloroethane	1.0	U
75-09-2	Methylene chloride (Dichloromethane)	5.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon tetrachloride	1.0	U
75-27-4	Bromodichloromethane	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
79-01-6	Trichloroethene	1.0	U
124-48-1	Dibromochloromethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-90-7	Chlorobenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
	SURROGATE-Fluorobenzene (QC Limits - 61 to 133%)		104 % Rec.

CASE NARRATIVE FOR
TBME, BTEX & TPH GAS

LABORATORY	: QAL	**CLIENT**	: DECON ENVIRONMENTAL Del Monte #35
CASE NO.	: N/A	**CONTRACT NO.:**	N/A
LAB REF. NO.:	R9200	**SDG NO.**	: R9200

I. RECEIPT

A. Date: December 9, 1994

B. Sample Information:

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
R9200001	SP-A	WATER	12/08/94	N/A	12/19/94
R9200002	SP-B	WATER	12/08/94	N/A	12/19/94
GWB11219	GWB11219	WATER	N/A	N/A	12/19/94

C. Documentation Exceptions : No exceptions were encountered.

II. EXTRACTION

A. Holding Times: Medium level protocol was not performed; therefore, holding time is not applicable.

B. Extraction Exceptions : Not applicable.

III. ANALYSIS

A. Holding Times: Holding times were met.

B. Analytical Exceptions : No exceptions were encountered.

IV. QUALITY CONTROL

A. Method Blank : The associated method blank met QC acceptance criteria.

B. Surrogate Recoveries : The surrogate recoveries met QC acceptance criteria.

kdh.020

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Brian Geers 12-21-94

Brian Geers **Date**
Manager, Organics Division

Quality Analytical Laboratories Inc.
5090 Caterpillar Road, Redding, CA 96003-1412
916 244-5227
Fax No. 916 244-4109

METHOD: 8020/8015(MOD)
TBME, BTEX & TFH Gas

Client: DECON ENVIRONMENTAL
Project: Del Monte #35
Client Sample ID: SP-A
Sample Matrix: Water
Dilution Factor: 1

Lab Sample ID: R9200001
Date Sampled: 12/08/94
Date Received: 12/09/94
Date Extracted: N/A
Date Analyzed: 12/19/94

Compound	Reporting Limit	Sample Result	Units
tert-Butyl methyl ether	0.50	2.6	ug/L
Benzene	0.50	U	ug/L
Toluene	0.50	U	ug/L
Ethyl Benzene	0.50	U	ug/L
Total Xylenes	0.50	U	ug/L
TFH Gas	50	U	ug/L
Fluorobenzene-SS		101	% rec.

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Approved by: Brian Gelas

FORM I

kdh.020

Quality Analytical Laboratories Inc.
5090 Caterpillar Road, Redding, CA 96003-1412
916 244-5227
Fax No. 916 244-4109

METHOD: 8020/8015(MOD)
TBME, BTEX & TFH Gas

Client: DECON ENVIRONMENTAL
Project: Del Monte #35
Client Sample ID: SP-B
Sample Matrix: Water
Dilution Factor: 1

Lab Sample ID: R9200002
Date Sampled: 12/08/94
Date Received: 12/09/94
Date Extracted: N/A
Date Analyzed: 12/19/94

Compound	Reporting Limit	Sample Result	Units
tert-Butyl methyl ether	0.50	3.3	ug/L
Benzene	0.50	U	ug/L
Toluene	0.50	U	ug/L
Ethyl Benzene	0.50	U	ug/L
Total Xylenes	0.50	U	ug/L
TFH Gas	50	U	ug/L
Fluorobenzene-SS		102	% rec.

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Approved by: Brian Dellis

FORM I

kdh.020

Quality Analytical Laboratories Inc.
5090 Caterpillar Road, Redding, CA 96003-1412
916 244-5227
Fax No. 916 244-4109

METHOD: 8020/8015(MOD)
TBME, BTEX & TFH Gas

Client Sample ID: GWB11219
Sample Matrix: Water
Dilution Factor: 1

Lab Sample ID: GWB11219
Date Extracted: N/A
Date Analyzed: 12/19/94

Compound	Reporting Limit	Method Blank Result	Units
tert-Butyl methyl ether	0.50	U	ug/L
Benzene	0.50	U	ug/L
Toluene	0.50	U	ug/L
Ethyl Benzene	0.50	U	ug/L
Total Xylenes	0.50	U	ug/L
TFH Gas	50	U	ug/L
Fluorobenzene-SS		98	% rec.

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Approved by: Brian Gelvin

FORM I

kdh.020

Quality Analytical Laboratories Inc.
5090 Caterpillar Road, Redding, CA 96003-1412
916 244-5227
Fax No. 916 244-4109

CASE NARRATIVE FOR
TPH DIESEL

LABORATORY	: QAL	**CLIENT**	: DECON ENVIRONMENTAL Del Monte #35
CASE NO.	: N/A	**CONTRACT NO.:**	N/A
LAB REF. NO.:	R9200	**SDG NO.**	: R9200

I. RECEIPT

A. Date: December 9, 1994

B. Sample Information:

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
R9200001	SP-A	WATER	12/08/94	12/09/94	12/12/94
R9200002	SP-B	WATER	12/08/94	12/09/94	12/12/94
DWB11209	DWB11209	WATER	N/A	12/09/94	12/12/94

C. Documentation Exceptions : No exceptions were encountered.

II. EXTRACTION

A. Holding Times: Holding times were met.

B. Extraction Exceptions : No exceptions were encountered.

III. ANALYSIS

A. Holding Times: Holding times were met.

B. Analytical Exceptions : No exceptions were encountered.

IV. QUALITY CONTROL

A. Method Blank : The associated method blank met QC acceptance criteria.

B. Surrogate Recoveries : The surrogate recoveries met QC acceptance criteria.

kdh.020

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Brian Geers 12-7-94

Brian Geers — Date
Manager, Organics Division

Quality Analytical Laboratories Inc.
5090 Caterpillar Road,
Redding, CA 96003-1412
916 244-5227
Fax No. 916 244-4109

METHOD: 8015(MOD)
TFH Diesel

Client: DECON ENVIRONMENTAL
Project: Del Monte #35
Client Sample ID: SP-A
Sample Matrix: Water
Dilution Factor: 1

Lab Sample ID: R9200001
Date Sampled: 12/08/94
Date Received: 12/09/94
Date Extracted: 12/09/94
Date Analyzed: 12/12/94

Compound	Reporting Limit	Sample Result	Units
TFH Diesel	0.050	0.051	mg/L
Docosane-SS		89	% rec.

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Approved by: Brian Geld

FORM I

kdh.020

Quality Analytical Laboratories Inc.
5090 Caterpillar Road, Redding, CA 96003-1412
916 244-5227
Fax No. 916 244-4109

METHOD: 8015(MOD)
TFH Diesel

Client: DECON ENVIRONMENTAL
Project: Del Monte #35
Client Sample ID: SP-B
Sample Matrix: Water
Dilution Factor: 1

Lab Sample ID: R9200002
Date Sampled: 12/08/94
Date Received: 12/09/94
Date Extracted: 12/09/94
Date Analyzed: 12/12/94

Compound	Reporting Limit	Sample Result	Units
TFH Diesel	0.050	0.058	mg/L
Docosane-SS		94	% rec.

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Approved by: Brian Gelso

FORM I

kdh.020

Quality Analytical Laboratories Inc.
5090 Caterpillar Road, Redding, CA 96003-1412
916 244-5227
Fax No. 916 244-4109

METHOD: 8015(MOD)
TFH Diesel

Client Sample ID: DWB11209
Sample Matrix: Water
Dilution Factor: 1

Lab Sample ID: DWB11209
Date Extracted: 12/09/94
Date Analyzed: 12/12/94

Compound	Reporting Limit	Method Blank Result	Units
TFH Diesel	0.050	U	mg/L
Docosane-SS		89	% rec.

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Approved by: 

FORM I

kdh.020

Quality Analytical Laboratories Inc.
5090 Caterpillar Road, Redding, CA 96003-1412
916 244-5227
Fax No. 916 244-4109

QAL QUALITY ANALYTICAL LABORATORIES, INC.

CHAIN OF CUSTODY RECORD AND AGREEMENT TO PERFORM SERVICES

Project #

Purchase Order # 773

Project Name: Del Monte ... Gainesville

Company Name: [illegible] Environmental

Project Manager or Contact & Phone #: [illegible] 904 372 6444

Report Copy to: P. Schuen / [illegible]; A. Baumgartner / [illegible]

Requested Completion Date: STD TAT

Site ID

Sample Disposal: Dispose [X] Return [X]

☐ LGN One Innovation Drive, Suite C Alachua, FL 32615-9586 (904) 462-3050 FAX (904) 462-1670

☐ LRD 5090 Caterpillar Road Redding, CA 96003-1412 (916) 244-5227 FAX (916) 244-4109

☐ LMG 2567 Fairlane Drive Montgomery, AL 36116-1622 (205) 271-2440 FAX (205) 271-3428

☐ LKW Canviro Analytical Laboratories, Inc. 50 Bathurst, Unit 12 Waterloo, Ontario, Canada N2V 2C5 (519) 747-2575 FAX (519) 747-3806

THIS AREA FOR LAB USE ONLY

Lab #	Page	of
R9200		
Client Service	Price Source A P Q S	
Acct Code	Test Group	
Project Code	Ack. Gen.	
LIMS Ver	Login	Mult.
COC Review		

ANALYSES REQUESTED

Sampling Date	Time	COMP	GRAB	WATER	SOIL	CLIENT SAMPLE ID (9 CHARACTERS)	QC ID (3 CHAR)	# OF CONTAINERS	TPH-gasoline	Benzene, Toluene, ...	EPA 601	TPH-Diesel	SAMPLE REMARKS	LAB 1 ID	LAB 2 ID
12-8-94	11:08	X		X		SP-A		3	X	X			Samples collected during treatment of water stored in Baker Tanks		001
	11:22	X		X		SP-A		3			X				
	11:10		X	X		SP-A		1				X			
	11:15	X		X		SP-A		3	X	X					002
	11:15	X		X		SP-A		3			X				
↓	11:15		X	X		SP-A		1				X			

Sampled By & Title (Please sign and print name)	Date/Time	Relinquished By (Please sign and print name)	Date/Time
P. Schuen, Proj. Mgr.	12 8 94 17:20	P. Schuen	12 8 94 17:20
Received By	Date/Time	Relinquished By	Date/Time
Received By	Date/Time	Relinquished By	Date/Time
Received By [illegible]	12-9-94 12:00	Shipped Via UPS ✓ Fed-Ex Other	Shipping #

HAZWRAP/NESSA: Y N

EDATA: Y N

QC LEVEL (1) 2 3 OTHER

pH <2 Ice Y

Custody Seal Y Temp 2°C

Batch Remarks:

000016

TO LGN

GC EXT
CS

2.5

QUALITY ANALYTICAL LABORATORIES, INC.

CHAIN OF CUSTODY RECORD AND AGREEMENT TO PERFORM SERVICES

Project # LRD 010000 XY	Purchase Order # 7Y3
Project Name DECON DEL MONTE / DEL MONTE 35 EMERYVILLE	
Company Name DECON ENVIRONMENTAL / DECON ENV	
Project Manager or Contact & Phone # PETER SCHOEN 510 732-6444	Report Copy to: P. SCHOEN / DECON; B. BAUMGARTNER / HILL SEO
Requested Completion Date: 12-23-94 STD TAT	Site ID
Sample Disposal: Dispose ☒ NH Return ☒ HCS	

☐ LGN — One Innovation Drive, Suite C, Alachua, FL 32615 9586, (904) 462-3050 FAX (904) 462 1670

☐ LRD — 5090 Caterpillar Road, Redding, CA 96003 1412, (916) 244 5227 FAX (916) 244 4109

☐ LMG — 2567 Fairlane Drive, Montgomery, AL 36116-1622, (205) 271 2440 FAX (205) 271 3420

☐ LKW — Canviro Analytical Laboratories, Inc, 50 Bathurst, Unit 12, Waterloo, Ontario, Canada N2V 2C5, (519) 747-2575 FAX (519) 747 3806

THIS AREA FOR LAB USE ONLY

Lab # R9200	Page / of
Client Service	Price Source A P O S
Acct Code	Test Group
Project Code	Ack. Gen.
LIMS Ver	Login KLS 12 9 94 1850 / Mult.
COC Review	

Sampling Date	Sampling Time	Type COMP	Type GRAB	Matrix WATER	Matrix SOIL	CLIENT SAMPLE ID (8 CHARACTERS)	QC ID (3 CHAR)	# OF CONTAINERS	TPH - gasoline (M)	Benzene, Toluene, Ethyl benzene, Xylenes	EPA 601	TPH - diesel (M)	SAMPLE REMARKS	LAB 1 ID	LAB 2 ID
12-8-94	13:03	X		X		3 F - A		3	X	X					
	13:09	X		X		5 F - A		3			X				001
	13:10		X	X		5 F - A		1				X			
	13:14	X		X		5 F - B		3	X	X					
	13:15	X		X		5 F - B		3			X				002
	13:16		X	X		5 F - B		1				X			

Samples collected during treatment of water stored in Baker Tanks

Sampled By & Title P. SCHOEN	(Please sign and print name) P. SCHOEN PROJ. MGR	Date/Time 12 8 94 13:20	
Relinquished By	(Please sign and print name)	Date/Time	
Received By	(Please sign and print name)	Date/Time	
Relinquished By	(Please sign and print name)	Date/Time	
Received By	(Please sign and print name)	Date/Time	
Relinquished By	(Please sign and print name)	Date/Time	
Received By	(Please sign and print name)	Date/Time	
Relinquished By	(Please sign and print name)	Date/Time	
Received By	(Please sign and print name)	Date/Time	

Relinquished By: P SCHOEN — Date/Time: 12 8 94 17:00

Received By: Mel — Relinquished By: J Maynard — Date/Time: 12/12/94 11:30

Received By: (12-9-94 12:00) — Relinquished By: Kevin Lafair — Date/Time: 12-10-94 1400

Shipped Via: UPS / Fed-Ex / Other — Shipping #

HAZWRAP/NESSA: Y N

EDATA: Y N

QC LEVEL 1 2 3 OTHER

pH <2 — Ice Y — Custody Seal Y — Temp 2°C

Batch Remarks:

10001

Sample Receipt Record

Batch Number: R9200

Date received: 12/12/94

Client/Project: Devon Del Monte / LRD

VERIFICATION OF SAMPLE CONDITIONS (verify all items)

Observation	YES	NO
Were custody seals on the outside of the cooler?	✓	
Was the Chain of Custody inside the cooler?	✓	
Was the Chain of Custody properly filled out?	✓	
Was there ice in the cooler? Enter temperature of temperature blank: 2 °C	✓	
Were the sample containers in good condition?	✓	

If the answer to any of the questions above is NO, a Sample Receipt Exceptions Report must be written.

VERIFICATION OF SAMPLE PRESERVATION (verify all preserved samples)

- SIGNIFY VERIFICATION BY WRITING "pH<2" or pH>9"

Sample No	HNO_3	H_2SO_4	HCl	NaOH	Other (specify)	Other (specify)
1			<2			
2			<2			

VERIFICATIONS PERFORMED BY

LRD

Date/Time

Date/Time

CATIONS ALIQUOTS

Relinquished by: Date/Time Received by: Date/Time

WET CHEMISTRY ALIQUOTS

Relinquished by: Date/Time Received by: Date/Time

EXTRACTIONS ALIQUOTS

Relinquished by: Date/Time Received by: Date/Time

VOA ALIQUOTS

Angel 12/12/94 - 1222 to voas

Relinquished by: Date/Time Received by: Date/Time

Relinquished by: Date/Time Received by: Date/Time

SUBCONTRACTOR ALIQUOTS

Relinquished by: Date/Time Subcontractor Aliquot

00001

QUALITY ANALYTICAL
LABORATORIES, INC.

January 4, 1995

Mr. Bern Baumgartner
CH2M Hill/SFO
1111 Broadway, Suite 1200
PO Box 12681
Oakland, CA 94607-4046

RE: Analytical Data for: **Del Monte**
Laboratory Reference Number: **R9273**

Dear Mr. Baumgartner:

On **December 30, 1994**, QAL, Inc. received samples with a request for analysis. The analytical results and associated quality control data are enclosed.

It is our policy to store your samples for 30 days from the date of this letter. If extended storage is required, special arrangements can be accommodated upon early notification. The disposition of samples identified as hazardous will require special handling and you will be contacted if necessary.

QAL, Inc. appreciates your business and looks forward to serving you again. If you have any questions concerning your report or need any additional information, please call me at **(916) 244-5227**.

Sincerely,

Bryan Jones
Project Manager/Client Services

TABLE OF CONTENTS

QAL Reference No. R9273

ORGANIC DATA QUALIFIERS

U -- Indicates the compound was analyzed for but not detected. The number adjacent to the "U" qualifier indicates the reporting limit for that compound. The reporting limit can vary from sample to sample depending on dilution factors or percent moisture adjustment when indicated.

J -- Indicates an estimated value. It is used when the data indicates the presence of a compound below the stated reporting limit.

C -- This flag applies to GC analytes only. The "C" flag indicates the presence of this compound has been confirmed by GC/MS analysis.

B -- This flag is used when the analyte is found in the associated blank as well as the sample. This notation indicates possible blank contamination and suggests the data user evaluate these compounds and their amounts carefully.

E -- This qualifier indicates that the value reported exceeds the linear calibration range for that compound. Therefore, the sample should be reanalyzed at an appropriate dilution. The "E" qualified amount is an estimated concentration, and the results of the dilution will be reported on a separate Form I.

D -- This qualifier indicates compounds which have been identified during a diluted reanalysis. "D" qualifiers are used for samples that have been analyzed initially at a lesser dilution than required for accurate quantitation.

P -- This qualifier is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".

N -- This qualifier indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the "N" qualifier is not used.

A -- This qualifier indicates that a TIC is a suspected aldol-condensation product.

Quality Analytical Laboratories Inc.
5090 Caterpillar Road, Redding, CA 96003-1412
916 244-5227 Fax No. 916 244-4109

ORGANIC LAB SAMPLE ID QUALIFIERS

The qualifiers that may be appended to the Lab Sample ID for organic analyses are defined below:

DL Dilution Run. Indicates the sample contained compounds exceeding the calibration range. The sample was diluted and re-analyzed. Both results are reported.

R Rerun. The sample was re-analyzed. The "R" is not used if the sample was also re-extracted.

RE Re-extraction Analysis. The sample was re-extracted and re-analyzed.

MS Matrix Spike (may be followed by a digit to indicate multiple matrix spikes within a sample set)

MSD Matrix Spike Duplicate (may be followed by a digit to indicate multiple matrix spike duplicates within a sample set)

DUP Duplicate extraction and analysis. The sample was extracted and analyzed in duplicate.

Quality Analytical Laboratories Inc.
5090 Caterpillar Road, i
Redding, CA 96003-1412
916 244-5227
Fax No. 916 244-4109

ORGANIC ANALYSIS METHODS

✓ Check appropriate analysis method(s) and/or preparation method(s)

QAL Lab Reference No. R9213

Parameter		Method	Method Source
Halogenated Volatile Organics	☒	601	40 CFR 136
	☐	5030A/8010A	SW-846, 3rd Ed.
Aromatic Volatile Organics	☐	602	40 CFR 136
	☐	5030A/8020	SW-846, 3rd Ed.
Phenols - Determinative	☐	604	40 CFR 136
	☐	8040A	SW-846, 3rd Ed.
- *Extraction*	☐	3520A/3550	SW-846, 3rd Ed.
- *Clean-Up*	☐	3640/3650A	SW-846, 3rd Ed.
Chlor. Pest./PCB - Determinative	☐	608	40 CFR 136
	☐	8080	SW-846, 3rd Ed.
	☐	CLP	SOW OLM01.9
- *Extraction*	☐	3520A/3550	SW-846, 3rd Ed.
- *Clean-Up*	☐	3620A/3640/3660A	SW-846, 3rd Ed.
Organo-P Pesticides - Determinative	☐	8140A	SW-846, 3rd Ed.
- *Extraction*	☐	3520A/3550	SW-846, 3rd Ed.
- *Clean-Up*	☐	3620A/3640	SW-846, 3rd Ed.
Chlorinated Herbicides	☐	8150A	SW-846, 3rd Ed.
Volatile Organics	☐	624	40 CFR 136
	☐	524.2	EPA-600/4-88-039, 10/93
	☐	8240A	SW-846, 3rd Ed.
	☐	CLP	SOW OLM01.9
Volatile Organics, Low Level	☐	CLP	Superfund Analytical Methods for Low Concentration Water for Organics Analysis, 10/92
Volatile Organics by GC/MS	☐	8260	SW-846. 3rd Ed.
Semivolatile Org.- Determinative	☐	625	40 CFR 136
	☐	8270A	SW-846, 3rd Ed.
	☐	CLP	SOW OLM01.9
- *Extraction*	☐	3520A/3550/3580A	SW-846, 3rd Ed.
- *Clean-Up*	☐	3640/3650A/3660A	SW-846, 3rd Ed.

Each of the extraction methods indicated applies only to samples of the appropriate matrix.

The clean-up methods indicated do not necessarily apply to all samples in the deliver group. Refer to the case narrative or sample report for specific information.

Parameter	Method	Method Source
PAH - Determinative	☐ 610	40 CFR 136
	☐ 8310	SW-846, 3rd Ed.
- *Extraction*	☐ 3520A/3550	SW-846, 3rd Ed.
- *Clean-Up*	☐ 3630A	SW-846, 3rd Ed.
Chlorinated Phenols (CPAR)	☐ Internal	CPAR Project Report 825-1, Canadian Pulp and Paper Research Institute, 3/79
PCBs/Oil	☐ Internal	EPA-600/4-81-045
TFH/Gasoline	☐ CA LUFT	CA LUFT Manual, 5/88
	☐ AK Modified GRO	ADEC PUBL-AK 101, 2/93
	☐ WI Modified GRO	WI DNR PUBL-SW-140, 7/93
TFH/Diesel	☐ CA LUFT	CA LUFT Manual, 5/88
	☐ AK Modified DRO	ADEC PUBL-AK 101,1/93
	☐ WI Modified DRO	WI DNR PUBL-SW-141, 7/93
Formaldehyde	☐ 8315	SW-846 3rd Ed., Proposed Update II, 11/92
TCLP Extraction	☐ 1311	SW-846, 3rd Ed.

Each of the extraction methods indicated applies only to samples of the appropriate matrix.

The clean-up methods indicated do not necessarily apply to all samples in the deliver group. Refer to the case narrative or sample report for specific information.

Sample ID Cross-reference Table

QAL, Inc. Lab Sample ID		Client Sample ID	Collect Date	Sample Matrix	Additional Description
R9273001	FS	MW-7	12/29/94	Water	
R9273002	FS	MW-9	12/29/94	Water	
R9273003	FS	MW-10	12/29/94	Water	
R9273004	FS	MW-12	12/29/94	Water	

CASE NARRATIVE FOR HALOCARBONS

LABORATORY : QAL

CLIENT : CH2M Hill/SFO
Del Monte #35

CASE NO. : N/A

CONTRACT NO.: N/A

LAB REF. NO.: R9273

SDG NO. : R9273

I. RECEIPT

A. Date: December 30, 1994

B. Sample Information:

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLE MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED
R9273001	MW-7	WATER	12/29/94	N/A	01/03/95
R9273002	MW-9	WATER	12/29/94	N/A	01/03/95
R9273003	MW-10	WATER	12/29/94	N/A	01/03/95
R9273004	MW-12	WATER	12/29/94	N/A	01/03/95
VWB10103	VWB10103	WATER	N/A	N/A	01/03/95

C. Documentation Exceptions : No exceptions were encountered.

II. EXTRACTION

A. Holding Times: Medium level protocol was not performed; therefore, holding time is not applicable.

B. Extraction Exceptions : Not applicable.

III. ANALYSIS

A. Holding Times: Holding times were met.

B. Analytical Exceptions : No exceptions were encountered.

IV. QUALITY CONTROL

A. Method Blank : The associated method blank met QC acceptance criteria.

B. Surrogate Recoveries : The surrogate recoveries met QC acceptance criteria.

kdh.021

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

(for Brian Geers) 1/4/95

Brian Geers **Date**
Manager, Organics Division

Quality Analytical Laboratories Inc.
5090 Caterpillar Road, Redding, CA 96003-1412
916 244-5227
Fax No. 916 244-4109

Report of Analytical Data - Halocarbons

Client: CH2M Hill/SFO
Project: Del Monte #35
Proj No: N/A
Method: EPA 8010(MOD)
Matrix: Water
Sampler: N/A

Laboratory: QAL
Lab Sample ID: R9273001
% Moisture: N/A
Dilution Factor: 1.0
Instrument ID: VARIAN-3600

Date Sampled: 12/29/94
Date Received: 12/30/94
Date Extracted: N/A
Date Analyzed: 01/03/95
Analyst: J.W.
Date Reported: 01/04/95

Client Sample ID/Description: MW-7

CAS Number	Compound	Reporting Limit	Sample Result	Reporting Units
74-87-3	Chloromethane	1.0	U	ug/L
74-83-9	Bromomethane	1.0	U	ug/L
75-71-8	Dichlorodifluoromethane	1.0	U	ug/L
75-01-4	Vinyl chloride	1.0	U	ug/L
75-00-3	Chloroethane	1.0	U	ug/L
75-09-2	Dichloromethane	5.0	U	ug/L
75-69-4	Trichlorofluoromethane	1.0	U	ug/L
75-35-4	1,1-Dichloroethene	1.0	U	ug/L
75-34-3	1,1-Dichloroethane	1.0	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1.0	U	ug/L
67-66-3	Chloroform	1.0	U	ug/L
107-06-2	1,2-Dichloroethane	1.0	U	ug/L
71-55-6	1,1,1-Trichloroethane	1.0	U	ug/L
56-23-5	Carbon tetrachloride	1.0	U	ug/L
75-27-4	Bromodichloromethane	1.0	U	ug/L
78-87-5	1,2-Dichloropropane	1.0	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.0	U	ug/L
79-01-6	Trichloroethene	1.0	4.4	ug/L
124-48-1	Dibromochloromethane	1.0	U	ug/L
79-00-5	1,1,2-Trichloroethane	1.0	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1.0	U	ug/L
75-25-2	Bromoform	1.0	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	ug/L
127-18-4	Tetrachloroethene	1.0	3.8	ug/L
108-90-7	Chlorobenzene	1.0	U	ug/L
541-73-1	1,3-Dichlorobenzene	1.0	U	ug/L
95-50-1	1,2-Dichlorobenzene	1.0	U	ug/L
106-46-7	1,4-Dichlorobenzene	1.0	U	ug/L
110-56-5	1,4-Dichlorobutane-SS		89	% rec.

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Approved by:

FORM I

kdh.021

Report of Analytical Data - Halocarbons

Client: CH2M Hill/SFO
Project: Del Monte #35
Proj No: N/A
Method: EPA 8010(MOD)
Matrix: Water
Sampler: N/A

Laboratory: QAL
Lab Sample ID: R9273002
% Moisture: N/A
Dilution Factor: 1.0
Instrument ID: VARIAN-3600

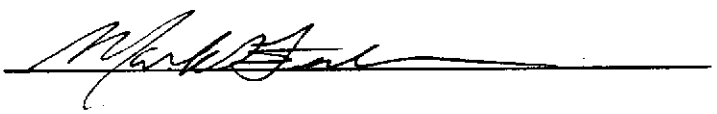
Date Sampled: 12/29/94
Date Received: 12/30/94
Date Extracted: N/A
Date Analyzed: 01/03/95
Analyst: J.W.
Date Reported: 01/04/95

Client Sample ID/Description: MW-9

CAS Number	Compound	Reporting Limit	Sample Result	Reporting Units
74-87-3	Chloromethane	1.0	U	ug/L
74-83-9	Bromomethane	1.0	U	ug/L
75-71-8	Dichlorodifluoromethane	1.0	U	ug/L
75-01-4	Vinyl chloride	1.0	U	ug/L
75-00-3	Chloroethane	1.0	U	ug/L
75-09-2	Dichloromethane	5.0	U	ug/L
75-69-4	Trichlorofluoromethane	1.0	U	ug/L
75-35-4	1,1-Dichloroethene	1.0	U	ug/L
75-34-3	1,1-Dichloroethane	1.0	U	ug/L
156-60-5	trans-1,2-Dichloroethene	1.0	U	ug/L
67-66-3	Chloroform	1.0	U	ug/L
107-06-2	1,2-Dichloroethane	1.0	U	ug/L
71-55-6	1,1,1-Trichloroethane	1.0	U	ug/L
56-23-5	Carbon tetrachloride	1.0	U	ug/L
75-27-4	Bromodichloromethane	1.0	U	ug/L
78-87-5	1,2-Dichloropropane	1.0	U	ug/L
10061-01-5	cis-1,3-Dichloropropene	1.0	U	ug/L
79-01-6	Trichloroethene	1.0	3.5	ug/L
124-48-1	Dibromochloromethane	1.0	U	ug/L
79-00-5	1,1,2-Trichloroethane	1.0	U	ug/L
10061-02-6	trans-1,3-Dichloropropene	1.0	U	ug/L
75-25-2	Bromoform	1.0	U	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	ug/L
127-18-4	Tetrachloroethene	1.0	8.5	ug/L
108-90-7	Chlorobenzene	1.0	U	ug/L
541-73-1	1,3-Dichlorobenzene	1.0	U	ug/L
95-50-1	1,2-Dichlorobenzene	1.0	U	ug/L
106-46-7	1,4-Dichlorobenzene	1.0	U	ug/L
110-56-5	1,4-Dichlorobutane-SS		91	% rec.

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Approved by: 

FORM I

kdh.021

Quality Analytical Laboratories Inc.
5090 Caterpillar Road, Redding, CA 96003-1412
916 244-5227
Fax No. 916 244-4109

Report of Analytical Data - Halocarbons

Client:	CH2M Hill/SFO	Laboratory:	QAL	Date Sampled:	12/29/94
Project:	Del Monte #35	Lab Sample ID:	R9273003	Date Received:	12/30/94
Proj No:	N/A	% Moisture:	N/A	Date Extracted:	N/A
Method:	EPA 8010(MOD)	Dilution Factor:	1.0	Date Analyzed:	01/03/95
Matrix:	Water	Instrument ID:	VARIAN-3600	Analyst:	J.W.
Sampler:	N/A			Date Reported:	01/04/95

Client Sample ID/Description: MW-10

CAS Number	Compound	Reporting Limit	Sample Result		Reporting Units
74-87-3	Chloromethane	1.0	U		ug/L
74-83-9	Bromomethane	1.0	U		ug/L
75-71-8	Dichlorodifluoromethane	1.0	U		ug/L
75-01-4	Vinyl chloride	1.0	U		ug/L
75-00-3	Chloroethane	1.0	U		ug/L
75-09-2	Dichloromethane	5.0	U		ug/L
75-69-4	Trichlorofluoromethane	1.0	U		ug/L
75-35-4	1,1-Dichloroethene	1.0	U		ug/L
75-34-3	1,1-Dichloroethane	1.0	U		ug/L
156-60-5	trans-1,2-Dichloroethene	1.0	U		ug/L
67-66-3	Chloroform	1.0	U		ug/L
107-06-2	1,2-Dichloroethane	1.0	U		ug/L
71-55-6	1,1,1-Trichloroethane	1.0	U		ug/L
56-23-5	Carbon tetrachloride	1.0	U		ug/L
75-27-4	Bromodichloromethane	1.0	U		ug/L
78-87-5	1,2-Dichloropropane	1.0	U		ug/L
10061-01-5	cis-1,3-Dichloropropene	1.0	U		ug/L
79-01-6	Trichloroethene	1.0	U		ug/L
124-48-1	Dibromochloromethane	1.0	U		ug/L
79-00-5	1,1,2-Trichloroethane	1.0	U		ug/L
10061-02-6	trans-1,3-Dichloropropene	1.0	U		ug/L
75-25-2	Bromoform	1.0	U		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U		ug/L
127-18-4	Tetrachloroethene	1.0	U		ug/L
108-90-7	Chlorobenzene	1.0	U		ug/L
541-73-1	1,3-Dichlorobenzene	1.0	U		ug/L
95-50-1	1,2-Dichlorobenzene	1.0	U		ug/L
106-46-7	1,4-Dichlorobenzene	1.0	U		ug/L
110-56-5	1,4-Dichlorobutane-SS		93		% rec.

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Approved by: _____

FORM I

kdh.021

Quality Analytical Laboratories Inc.
5090 Caterpillar Road, Redding, CA 96003-1412
916 244-5227 Fax No. 916 244-4109

Report of Analytical Data - Halocarbons

Client: CH2M Hill/SFO
Project: Del Monte #35
Proj No: N/A
Method: EPA 8010(MOD)
Matrix: Water
Sampler: N/A

Laboratory: QAL
Lab Sample ID: R9273004
% Moisture: N/A
Dilution Factor: 1.0
Instrument ID: VARIAN-3600

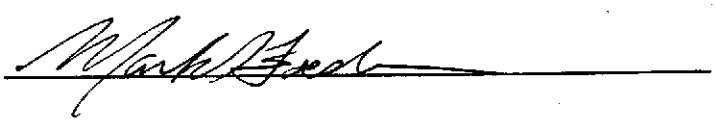
Date Sampled: 12/29/94
Date Received: 12/30/94
Date Extracted: N/A
Date Analyzed: 01/03/95
Analyst: J.W.
Date Reported: 01/04/95

Client Sample ID/Description: MW-12

CAS Number	Compound	Reporting Limit	Sample Result		Reporting Units
74-87-3	Chloromethane	1.0	U		ug/L
74-83-9	Bromomethane	1.0	U		ug/L
75-71-8	Dichlorodifluoromethane	1.0	U		ug/L
75-01-4	Vinyl chloride	1.0	U		ug/L
75-00-3	Chloroethane	1.0	U		ug/L
75-09-2	Dichloromethane	5.0	U		ug/L
75-69-4	Trichlorofluoromethane	1.0	U		ug/L
75-35-4	1,1-Dichloroethene	1.0	U		ug/L
75-34-3	1,1-Dichloroethane	1.0	U		ug/L
156-60-5	trans-1,2-Dichloroethene	1.0	U		ug/L
67-66-3	Chloroform	1.0	U		ug/L
107-06-2	1,2-Dichloroethane	1.0	U		ug/L
71-55-6	1,1,1-Trichloroethane	1.0	U		ug/L
56-23-5	Carbon tetrachloride	1.0	U		ug/L
75-27-4	Bromodichloromethane	1.0	U		ug/L
78-87-5	1,2-Dichloropropane	1.0	U		ug/L
10061-01-5	cis-1,3-Dichloropropene	1.0	U		ug/L
79-01-6	Trichloroethene	1.0	28		ug/L
124-48-1	Dibromochloromethane	1.0	U		ug/L
79-00-5	1,1,2-Trichloroethane	1.0	U		ug/L
10061-02-6	trans-1,3-Dichloropropene	1.0	U		ug/L
75-25-2	Bromoform	1.0	U		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U		ug/L
127-18-4	Tetrachloroethene	1.0	11		ug/L
108-90-7	Chlorobenzene	1.0	U		ug/L
541-73-1	1,3-Dichlorobenzene	1.0	U		ug/L
95-50-1	1,2-Dichlorobenzene	1.0	U		ug/L
106-46-7	1,4-Dichlorobenzene	1.0	U		ug/L
110-56-5	1,4-Dichlorobutane-SS		91		% rec.

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Approved by: 

FORM I

kdh.021

Report of Analytical Data - Halocarbons

Client: N/A
Project: N/A
Proj No: N/A
Method: EPA 8010(MOD)
Matrix: Water
Sampler: N/A

Laboratory: QAL
Lab Sample ID: VWB10103
% Moisture: N/A
Dilution Factor: 1.0
Instrument ID: VARIAN-3600

Date Sampled: N/A
Date Received: N/A
Date Extracted: N/A
Date Analyzed: 01/03/95
Analyst: J.W.
Date Reported: 01/04/95

Client Sample ID/Description: VWB10103

CAS Number	Compound	Reporting Limit	Method Blank Result		Reporting Units
74-87-3	Chloromethane	1.0	U		ug/L
74-83-9	Bromomethane	1.0	U		ug/L
75-71-8	Dichlorodifluoromethane	1.0	U		ug/L
75-01-4	Vinyl chloride	1.0	U		ug/L
75-00-3	Chloroethane	1.0	U		ug/L
75-09-2	Dichloromethane	5.0	U		ug/L
75-69-4	Trichlorofluoromethane	1.0	U		ug/L
75-35-4	1,1-Dichloroethene	1.0	U		ug/L
75-34-3	1,1-Dichloroethane	1.0	U		ug/L
156-60-5	trans-1,2-Dichloroethene	1.0	U		ug/L
67-66-3	Chloroform	1.0	U		ug/L
107-06-2	1,2-Dichloroethane	1.0	U		ug/L
71-55-6	1,1,1-Trichloroethane	1.0	U		ug/L
56-23-5	Carbon tetrachloride	1.0	U		ug/L
75-27-4	Bromodichloromethane	1.0	U		ug/L
78-87-5	1,2-Dichloropropane	1.0	U		ug/L
10061-01-5	cis-1,3-Dichloropropene	1.0	U		ug/L
79-01-6	Trichloroethene	1.0	U		ug/L
124-48-1	Dibromochloromethane	1.0	U		ug/L
79-00-5	1,1,2-Trichloroethane	1.0	U		ug/L
10061-02-6	trans-1,3-Dichloropropene	1.0	U		ug/L
75-25-2	Bromoform	1.0	U		ug/L
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U		ug/L
127-18-4	Tetrachloroethene	1.0	U		ug/L
108-90-7	Chlorobenzene	1.0	U		ug/L
541-73-1	1,3-Dichlorobenzene	1.0	U		ug/L
95-50-1	1,2-Dichlorobenzene	1.0	U		ug/L
106-46-7	1,4-Dichlorobenzene	1.0	U		ug/L
110-56-5	1,4-Dichlorobutane-SS		82		% rec.

U = Compound analyzed for but not detected above reporting limit.
SS = Surrogate Standard reported as percent recovery.

Comments:

Approved by:

FORM I

kdh.021

Quality Analytical Laboratories Inc.
5090 Caterpillar Road, Redding, CA 96003-1412
916 244-5227 Fax No. 916 244-4109

BLAINE TECH SERVICES INC

985 TIMOTHY DRIVE
SAN JOSE, CA 95133
(408) 995-5535
FAX (408) 293-8773

CHAIN OF CUSTODY 941229-51

CLIENT CH2M Hill

SITE Del Monte Plant 35
1250 Park Ave
Emeryville, CA

SAMPLE I.D.	MATRIX S = SOIL W = H2O	CONTAINERS TOTAL	C = COMPOSITE ALL CONTAINERS	6010
MW-7	W	4		X
MW-9	W	4		X
MW-10	W	4		X
MW-12	W	4		X

CONDUCT ANALYSIS TO DETECT

LAB Chromalab

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

- ☐ EPA
- ☐ LIA
- ☐ OTHER

SPECIAL INSTRUCTIONS
Invoice + Report to CH2M Hill
Attn: Madeline Hill

cc report to Blaine lab.

ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #

SAMPLING COMPLETED	DATE	TIME
	12/29/94	1145

SAMPLING PERFORMED BY SHAWN R. HALLS

RESULTS NEEDED NO LATER THAN As Contracted

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	12/29/94	1215		12/30/94	10:1
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #
1203855741 GREYHOUND	12/29/94	1215	—

TEMP 4°C

ATTACHMENT B

Field Sampling Report

BLAINE
TECH SERVICES INC.

985 TIMOTHY DRIVE
SAN JOSE, CA 95133
(408) 995-5535
FAX (408) 293-8773

January 4, 1995

CH_2M Hill
1111 Broadway, Suite 1200
Oakland, CA 94607-4046

Attn: Madeline Wall

SITE:
Del Monte
Plant 35
1250 Park Avenue
Emeryville, California

CH_2M HILL PROJECT NUMBER:
BAE 28830.P3

DATE:
December 29, 1994

GROUNDWATER SAMPLING REPORT 941229-S-1

Blaine Tech Services, Inc. perform specialized environmental sampling and documentation as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. does not participate in the interpretation of analytical results or become involved with the marketing or installation of remedial systems.

This report deals with the groundwater well sampling performed by our firm in response to your request. Data collected in the course of our work at the site are presented in the TABLE OF WELL MONITORING DATA. This information was collected during our inspection, well evacuation, and sample collection. Measurements include the total depth of the well and depth to water. Water surfaces were further inspected for the presence of immiscibles. A series of electrical conductivity, pH, and temperature readings were obtained during well evacuation and at the time of sample collection.

TABLE OF WELL MONITORING DATA

Well I.D.	MW-7			MW-9			MW-10			MW-12	
Date Sampled	12/29/94			12/29/94			12/29/94			12/29/94	
Well Diameter (in.)	2			2			2			2	
Total Well Depth (ft.)	24.38			19.66			17.60			19.80	
	BEFORE	AFTER		BEFORE	AFTER		BEFORE	AFTER		BEFORE	AFTER
Depth To Water (ft.)	6.68	7.20		8.24	--		6.36	6.30		6.20	6.20
Free Product (in.)	NONE			NONE			NONE			NONE	
Reason If Not Sampled	--			--			--			--	
1 Case Volume (gal.)	2.8			1.8			1.79			2.1	
Did Well Dewater?	NO			NO			NO			NO	
Gallons Actually Evacuated	9.0			6.0			5.5			6.5	
Purging Device	BAILER			BAILER			BAILER			BAILER	
Sampling Device	BAILER			BAILER			BAILER			BAILER	
Time	11:00	11:05	11:10	11:19	11:24	11:28	09:54	09:57	09:59	10:26	10:28	10:30
Temperature (Fahrenheit)	61.0	61.6	61.0	64.6	64.2	64.6	62.8	62.0	62.0	67.2	67.0	67.0
pH	6.6	6.8	6.8	6.8	6.8	6.6	7.0	6.8	7.0	6.8	7.0	7.0
Conductivity (micromhos/cm)	640	640	640	720	700	700	1000	800	800	800	800	800
Nephelometric Turbidity Units	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200	>200
BTS Chain of Custody	941229-S-1			941229-S-1			941229-S-1			941229-S-1	
BTS Sample I.D.	MW-7			MW-9			MW-10			MW-12	
DHS HMTL Laboratory	CH2M HILL			CH2M HILL			CH2M HILL			CH2M HILL	
Analysis	EPA 8010			EPA 8010			EPA 8010			EPA 8010	

STANDARD PRACTICES

Evacuation and Sampling Equipment

As shown in the TABLE OF MONITORING DATA the wells at this site were evacuated according to a protocol requirement for three case volumes. The wells were evacuated using bailers.

Samples were collected using a bailer.

Bailers: A bailer, in its simplest form, is a hollow tube which has been fitted with a check valve at the lower end. The device can be lowered into a well by means of a cord. When the bailer enters the water, the check valve opens and liquid flows into the interior of the bailer. The bottom check valve prevents water from escaping when the bailer is drawn up out of the well.

Two types of bailers are used in groundwater wells at sites where fuel hydrocarbons are of concern. The first type of bailer is made of a clear material such as acrylic plastic and is used to obtain a sample of the surface and the near surface liquids in order to detect the presence of visible or measurable fuel hydrocarbon floating on the surface. The second type of bailer is made of Teflon or stainless steel and is used as an evacuation and/or sampling device.

Bailers are inexpensive and relatively easy to clean. Because they are manually operated, variations in operator technique may have a greater influence than would be found with more automated sampling equipment. Also where fuel hydrocarbons are involved, the bailer may include near surface contaminants that are not representative of water deeper in the well.

Decontamination

All apparatus is brought to the site in clean and serviceable condition. The equipment is decontaminated after each use and before leaving the site. Decontamination procedures include complete disassembly of the device to a point where a jet of steam cleaner water can be directed onto all the internal surfaces (this applies to the *inside* of the Teflon bladders of USGS/Middleburg pumps). Teflon conductor tubing is connected to the steam cleaner water outlet and water is run through the interior of the tubing for several minutes. The devices are then reassembled and actuated for a period of time as an additional measure. Blaine Tech Services, Inc. frequently modifies apparatus to allow complete disassembly and proper cleaning.

Effluent Materials

The evacuation process creates a volume of effluent water which must be contained. Blaine Tech Service, Inc. will place this water in appropriate containers of the client's choice or bring new DOT 17 E drums to the site which are appropriate for the containment of the effluent materials. The determination of how to properly dispose of the effluent water must usually await the results of laboratory analyses of the sample collected from the groundwater well. If that sample does not establish whether or not the effluent water is contaminated, or if effluent from more than one source has been combined in the same container, it may be necessary to conduct additional analyses on the effluent material.

Sampling Methodology

Samples were obtained by standardized sampling procedures that follow an evacuation and sample collection protocol. The sampling methodology conforms both State and Regional Water Quality Control Board standards and specifically adheres to EPA requirements for apparatus, sample containers and sample handling as specified in publication SW 846 and T.E.G.D. which is published separately.

Sample Containers

Sample containers are supplied by the laboratory performing the analyses.

Sample Handling Procedures

Following collection, samples are promptly placed in an ice chest containing prefrozen blocks of an inert ice substitute such as Blue Ice or Super Ice. The samples are maintained in either an ice chest or a refrigerator until delivered into the custody of the laboratory.

Sample Designations

All sample containers are identified with both a sampling event number and a discrete sample identification number. Please note that the sampling event number is the number that appears on our chain of custody. It is roughly equivalent to a job number, but applies only to work done on a particular day of the year rather than spanning several days as jobs and projects often do.

Chain of Custody

Samples are continuously maintained in an appropriate cooled container while in our custody and until delivered to the laboratory under our standard chain of custody. If the samples are taken charge of by a different party (such as another person from our office, a courier, etc.) prior to being delivered to the laboratory, appropriate release and acceptance records are made on the chain of custody (time, date, and signature of person releasing the samples followed by the time, date and signature of the person accepting custody of the samples).

Hazardous Materials Testing Laboratory

The samples obtained at this site were delivered to the CH_2M Hill Quality Analytical Laboratories in Redding, California. The CH_2M Hill Quality Analytical Laboratories is a California Department of Health Services certified Hazardous Materials Testing Laboratory and is listed as DOHS HMTL #1364.

Personnel

All Blaine Tech Services, Inc. personnel receive 29 CFR 1910.120(e)(2) training as soon after being hired as is practical. In addition, many of our personnel have additional certifications that include specialized training in level B supplied air apparatus and the supervision of employees working on hazardous materials sites. Employees are not sent to a site unless we are confident they can adhere to any site safety provisions in force at the site and unless we know that they can follow the written provisions of an SSP and the verbal directions of an SSO.

In general, employees sent to a site to perform groundwater well sampling will assume an OSHA level D (wet) environment exists unless otherwise informed. The use of gloves and double glove protocols protects both our employees and the integrity of the samples being collected. Additional protective gear and procedures for higher OSHA levels of protection are available.

Please call if we can be of any further assistance.

James Blaine for.

Richard C. Blaine

RCB/lp

attachments: chain of custody

BLAINE
TECH SERVICES INC

985 TIMOTHY DRIVE
SAN JOSE, CA 95133
(408) 995-5535
FAX (408) 293-8773

CHAIN OF CUSTODY 941229-51

CLIENT CH2M Hill

SITE Del Monte Plant 35
1250 Park Ave.
Emeryville, CA

CONDUCT ANALYSIS TO DETECT

LAB ~~Chromatab~~ QAL DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

☐ EPA ☐ RWQCB REGION ____
☐ LIA
☐ OTHER

SPECIAL INSTRUCTIONS
Invoice & Report to CH2M Hill
Attn: Madeline Wall

cc report to Blaine Tech.

SAMPLE I.D.	MATRIX S = SOIL W = H2O	CONTAINERS TOTAL	C = COMPOSITE ALL CONTAINERS	8010	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-7	W	4		X				
MW-9	W	4		X				
MW-10	W	4		X				
MW-12	W	4		X				

SAMPLING COMPLETED DATE 12/29/94 TIME 1145 SAMPLING PERFORMED BY SHAWN R. HALL

RESULTS NEEDED NO LATER THAN As Contacted

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	12/29/94	1215			

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #
GREYHOUND	12/29/94	1215	—

WELL GAUGING DATA

Project # 941229-51 Date 12/29/94 Client CH2MHILL

Site 1250 PARK AVE., EMERYVILLE

Well I.D.	Well Size (in.)	Sheen/ Odor	Depth to Immiscible Liquid (feet)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to Water (feet)	Depth to Well Bottom (feet)	Survey Point: TOB or TOC
MW-7	2					6.68	24.38	TOC
MW-9	2					6.24	19.66	↓
MW-10	2					6.36	17.60	↓
MW-12	2					6.20	19.80	↓

WELL MONITORING DATA SHEET

Project #: 941229-51	Client: CH2MHILL
Sampler: SHAWN	Date Sampled: 12/29/94
Well I.D.: MW-7	Well Diameter: (circle one) (2) 3 4 6 ___
Total Well Depth: Before 24.38 After	Depth to Water: Before 6.68 After 7.20
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC) Grade	Other --

Volume Conversion Factor (VCF):
$(ft \times (d^2/4) \times \pi)/231$
where
ft = in/foot
d = diameter (in.)
π = 3.1416
231 = in^3/gal

Well dia.	VCF
2"	= 0.16
3"	= 0.37
4"	= 0.65
6"	= 1.47
10"	= 4.06
12"	= 5.87

2.8 (1 Case Volume) x 3 (Specified Volumes) = 8.4 gallons

Purging: Bailer (☑)
Middleburg ☐
Electric Submersible ☐
Suction Pump ☐
Type of Installed Pump ___

Sampling: Bailer ☒
Middleburg ☐
Electric Submersible ☐
Suction Pump ☐
Installed Pump ☐

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1100	61.0	6.6	640	7200	3	
1105	61.6	6.8	640	7200	6	
1110	61.0	6.8	640	7200	9	

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 9.

Sampling Time: 1115

Sample I.D.: MW-7 Laboratory: ~~NET CHROMALAB~~ QAL

Analyzed for: 6010

Duplicate I.D.: Cleaning Blank I.D.:

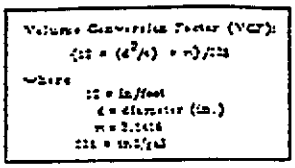
Analyzed for:

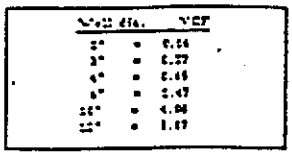
Shipping Notations:

Additional Notations:

WELL MONITORING DATA SHEET

Project #: 941229-51	Client: CH2M HILL
Sampler: SHAWN	Date Sampled: 12/29/94
Well I.D.: MW-9	Well Diameter: (circle one) (2) 3 4 6 ___
Total Well Depth: Before 19.66 After	Depth to Water: Before 8.24 After
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC) Grade	Other --





1.8 (1 Case Volume) x 3 (Specified Volumes) = 5.4 gallons

Purging: Bailer ☒ Middleburg ☐ Electric Submersible ☐ Suction Pump ☐ Type of Installed Pump ___

Sampling: Bailer ☒ Middleburg ☐ Electric Submersible ☐ Suction Pump ☐ Installed Pump ☐

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1119	64.6	6.8	720	>200	2	
1124	64.2	6.8	700	>200	4	
1128	64.6	6.6	700	7200	6	

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 6

Sampling Time: 1130

Sample I.D.: ~~8010~~ MW-9 Laboratory: ~~ATL~~ ~~CHROMALAB~~ QAL

Analyzed for: 8010

Duplicate I.D.: Cleaning Blank I.D.:

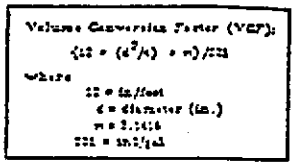
Analyzed for:

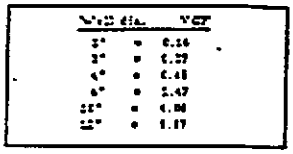
Shipping Notations:

Additional Notations:

WELL MONITORING DATA SHEET

Project #: 941229-51	Client: CH2M HILL
Sampler: SHAWN	Date Sampled: 12/29/94
Well I.D.: MW-10	Well Diameter: (circle one) (2) 3 4 6 ___
Total Well Depth: Before 17.60 After	Depth to Water: Before 6.36 After 6.30
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC) Grade	Other --





1 Case Volume	x	Specified Volumes	=	gallons
1.79	x	3	=	5.39

Purging: Bailer [X]
Middleburg [ ]
Electric Submersible [ ]
Suction Pump [ ]
Type of Installed Pump _____

Sampling: Bailer [X]
Middleburg [ ]
Electric Submersible [ ]
Suction Pump [ ]
Installed Pump [ ]

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
0954	62.8	7.0	1000	7200	1.8	
0957	62.0	6.8	800	7200	3.6	
0959	62.0	7.0	800	7200	5.5	

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 5.5

Sampling Time: 1005

Sample I.D.: MW-10 Laboratory: ~~KAS~~ ~~ENCHEM LAB~~ QAL

Analyzed for: 8010

Duplicate I.D.: Cleaning Blank I.D.:

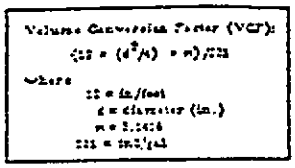
Analyzed for:

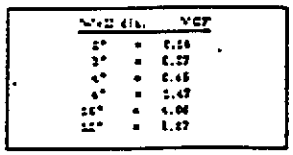
Shipping Notations:

Additional Notations:

WELL MONITORING DATA SHEET

Project #: 941229-51	Client: CH2MHILL
Sampler: SHAWN	Date Sampled: 12/29/94
Well I.D.: MW-12	Well Diameter: (circle one) (2) 3 4 6 ____
Total Well Depth: Before 19.80 After	Depth to Water: Before 6.20 After 6.20
Depth to Free Product:	Thickness of Free Product (feet):
Measurements referenced to: (PVC) Grade	Other --





2.1	x	3	=	6.3
1 Case Volume		Specified Volumes		gallons

Purging: Bailer [X]
Middleburg [ ]
Electric Submersible [ ]
Suction Pump [ ]
Type of Installed Pump _____

Sampling: Bailer [X]
Middleburg [ ]
Electric Submersible [ ]
Suction Pump [ ]
Installed Pump [ ]

TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
1026	67.2	6.6	800	7200	2.5	
1028	67.0	7.0	800	7200	5.0	
1030	67.0	7.0	800	7200	6.5	

Did Well Dewater? NO If yes, gals. Gallons Actually Evacuated: 6.5

Sampling Time: 1035

Sample I.D.: MW-12 Laboratory: ~~KPFF~~ CHROMALAB

Analyzed for: 8010

Duplicate I.D.: Cleaning Blank I.D.:

Analyzed for:

Shipping Notations:

Additional Notations:

ATTACHMENT C

GET System Inspection Logs

Del Monte Plant #35 Date: 10.28.94

DATA LOG & FIELD NOTES

JOB No.: 943
PROJECT: Del Monte Plant No. 35
ADDRESS: 4240 Hollis Street,
Emeryville, CA 95020

Well Depths:

Extraction Wells -

PW-1	10.22 ft.	7:23 time	
PW-2	9.42 ft.	7:24 time	Turned ON at measurement
PW-3	16.05	6:52	

Monitoring Wells -

				DEPTH	TIME
MW-7	8.38 ft.	7:18 time	P-1	6.94	7:08
MW-9	12.62 ft.	7:21 time	P-2	7.27	6:58
MW-10	11.52 ft.	7:15 time	P-3	5.98	7:03
MW-11	10.84 ft.	7:13 time			

Total GET Effluent 3002296 gal. 7:25 time

Time req'd: 95 min

GET System:

Please record the pressure gauge reading at each of the following locations:

Before bag filter: 14 psi.

After bag filter: 13 psi.

If the pressure differential across the bag filter is greater than 15 psi., was the filter bag exchanged? Yes ✓ No ____

Were all valves opened after replacing the filter bag?

Yes ✓ No ____

Were pumps turned ON after replacing the filter bag?

Yes ✓ No ____

Were any leaks (standing water or wet spots) seen that originated from GET System piping? Yes ____ No ✓

DECON

Del Monte Plant #35 *Date:* 10.28.94

If wet spots are noted, briefly describe location. _____

_____

Was sampling performed? Yes ____ No ✓

If yes, please check from which sample port/s.

A_____ B_____ C_____ D_____

Time req'd: 15 min

Was any maintenance performed on any of the equipment? If so, please describe in detail work performed and time required. _____

_____

_____

_____

Misc. Field Notes: The surge tank was scrubbed to remove algae build-up.

_____

_____

_____

_____

_____

Name (printed): P. SCHAEN Signature: P. Schaen

Start Time: 7:50 Finish Time: 7:50

DECON

rev. 1/93

Del Monte Plant #35

Date: 11-4-94

DATA LOG & FIELD NOTES

JOB No.: 943
PROJECT: Del Monte Plant No. 35
ADDRESS: 4240 Hollis Street,
Emeryville, CA 95020

Well Depths:

Extraction Wells -

PW-1	5.93 ft.	7:37 time	
PW-2	6.78 ft.	7:52 time	
	10.68	7:50	

Monitoring Wells -

MW-7	7.97 ft.	7:46 time	P-1	6.79	7:37
MW-9	10.75 ft.	7:49 time	P-2	6.60	7:31
MW-10	8.21 ft.	7:44 time	P-3	5.85	7:34
MW-12	6.89 ft.	7:41 time			

Total GET Effluent 3044.748 gal. _____ time

Time req'd: 25 min

GET System:

Please record the pressure gauge reading at each of the following locations:

Before bag filter: 14 psi.

After bag filter: 14 psi.

If the pressure differential across the bag filter is greater than 15 psi., was the filter bag exchanged? Yes ____ No ✓

Were all valves opened after replacing the filter bag?

Yes ____ No ____

Were pumps turned ON after replacing the filter bag?

Yes ____ No ____

Were any leaks (standing water or wet spots) seen that originated from GET System piping? Yes ____ No ✓

DECON

Monte Plant #35

Date: 11.4.94

If wet spots are noted, briefly describe location. _____

Was sampling performed? Yes ____ No ✓

If yes, please check from which sample port/s.

A_____ B_____ C_____ D_____

Time req'd: 5 min

Was any maintenance performed on any of the equipment? If so, please describe in detail work performed and time required. _____

Misc. Field Notes: Extraction pumps OFF upon arrival. GFI reset and pumps running fine. Covered all drums due to impending rain in forecast.

Name (printed): P. SCHOEN Signature: P. Sch

Start Time: 7:25 Finish Time: 8:10

DECON

rev. 3/93

Del Monte Plant #35 Date: 11-11-94

DATA LOG & FIELD NOTES

JOB No.: 943
PROJECT: Del Monte Plant No. 35
ADDRESS: 4240 Hollis Street,
Emeryville, CA 95020

Well Depths:

Extraction Wells -

PW-1	7.74 ft.	7:59 time	
PW-2	6.89 ft.	8:00 time	
PW-3	~~7.25~~ 10.56	7:25	

Monitoring Wells -

				DEPTH	TIME
MW-7	6.53 ft.	7:54 time	P-1	5.02	7:42
MW-9	9.39 ft.	7:58 time	P-2	5.40	7:32
MW-10	7.62 ft.	7:50 time	P-3	4.62	7:39
MW-12	7.12 ft.	7:44 time			

Total GET Effluent 3,89,98.' gal. 8:31 time

Time req'd: 30 min

GET System:

Please record the pressure gauge reading at each of the following locations:

Before bag filter: 22 psi.

After bag filter: 19 psi.

If the pressure differential across the bag filter is greater than 15 psi., was the filter bag exchanged? Yes X No ____

Were all valves opened after replacing the filter bag?

Yes X No ____

Were pumps turned ON after replacing the filter bag?

Yes ✓ No ____

Were any leaks (standing water or wet spots) seen that originated from GET System piping? Yes ____ No ✓

DECON

Del Monte Plant #35

Date: 11-11-94

If wet spots are noted, briefly describe location. _____

_____

Was sampling performed? Yes ____ No X

If yes, please check from which sample port/s.

A_____ B_____ C_____ D_____

Time req'd: 10 min

Was any maintenance performed on any of the equipment? If so, please describe in detail work performed and time required. _____

_____

_____

_____

Misc. Field Notes: _____

_____

_____

_____

_____

_____

Name (printed): R. SCHOEN Signature: R. Schoen

Start Time: 7:25 Finish Time: 8:30

DECON

Del Monte Plant #35 *Date:* 12-6-94

DATA LOG & FIELD NOTES

JOB No.: 943
PROJECT: Del Monte Plant No. 35
ADDRESS: 4240 Hollis Street,
Emeryville, CA 95020

Well Depths:

Extraction Wells -

PW-1	4.65 ft.	10.10	time
PW-2	3.80 ft.	10.11	time
PW-3	3.39	10.09	

Monitoring Wells -

MW-7	6.12 ft.	12 42	time
under pressure MW-9	10.13 ft.	10:45	time
MW-10	6.56 ft.	10:39	time
MW-12	covered by truck		time

	DEPTH	TIME
P-1	covered by car	
P-2	5.59	10:26
P-3	4.40	10:31

Total GET Effluent 3268 762 gal. 10:12 time

Time req'd: _____

GET System:

Please record the pressure gauge reading at each of the following locations:

Before bag filter: 14 psi.

After bag filter: 14 psi.

If the pressure differential across the bag filter is greater than 15 psi., was the filter bag exchanged? Yes ____ No X

Were all valves opened after replacing the filter bag?

Yes ____ No ____

Were pumps turned ON after replacing the filter bag?

Yes ____ No ____

Were any leaks (standing water or wet spots) seen that originated from GET System piping? Yes ____ No X

DECON

Del Monte Plant #35 Date: 12-6-94

If wet spots are noted, briefly describe location. _____

Was sampling performed? Yes X No ____

If yes, please check from which sample port/s.

A X B X C ____ D X E X

Time req'd: _____

Was any maintenance performed on any of the equipment? If so, please describe in detail work performed and time required. _____

Misc. Field Notes: System "OFF" upon arrival. Reset switch on GFI had "tripped" Reset and all components operational.

Name (printed): P. SCHOEN Signature: P. Schoen

Start Time: 9:15 Finish Time: _____

DECON

Del Monte Plant #35

Date: 12-15-94

DATA LOG & FIELD NOTES

JOB No.: 943
PROJECT: Del Monte Plant No. 35
ADDRESS: 4240 Hollis Street,
Emeryville, CA 95020

Well Depths:

Extraction Wells -

PW-1	332 ft.	1704 time			
PW-2	2.48 ft.	1705 time			
PW-3	5.78	1706			

Monitoring Wells -

				DEPTH	TIME
MW-7	6.18 ft.	1736 time	P-1	5.17	1722
MW-9	8.12 ft.	1739 time	P-2	5.18	1714
MW-10	5.81 ft.	1732 time	P-3	3.98	1717
MW-12	5.46 ft.	1727 time			

Total GET Effluent 3310748 gal. 1742 time

Time req'd: 35 min

GET System:

Please record the pressure gauge reading at each of the following locations:

Before bag filter: 0 psi.

After bag filter: 0 psi.

If the pressure differential across the bag filter is greater than 15 psi., was the filter bag exchanged? Yes ___ No X

Were all valves opened after replacing the filter bag?

Yes ___ No ___ N/A

Were pumps turned ON after replacing the filter bag?

Yes ___ No ___ N/A

Were any leaks (standing water or wet spots) seen that originated from GET System piping? Yes ___ No X

DECON

Del Monte Plant #35

Date: 12-15-94

If wet spots are noted, briefly describe location. _____

Was sampling performed? Yes ____ No X

If yes, please check from which sample port/s.

A_____ B_____ C_____ D_____

Time req'd: _____

Was any maintenance performed on any of the equipment? If so, please describe in detail work performed and time required. _____

- trouble with transfer pump heaters up. Remove and replace motor under warranty.

Misc. Field Notes: _____

Name (printed): Jason Loulbrausen Signature: J. Loulbrausen

Start Time: 1630 Finish Time: 1745

DECON

rev. 1/93

Del Monte Plant #35

Date: 11-30-94

DATA LOG & FIELD NOTES

JOB No.: 943
PROJECT: Del Monte Plant No. 35
ADDRESS: 4240 Hollis Street,
Emeryville, CA 95020

Well Depths:

Extraction Wells -

PW-1	4.68	ft.	1246	time
PW-2	3.86	ft.	1247	time
PW-3	8.82	ft.	1250	time

Monitoring Wells -

P-1	5.46	ft.	1313	time
P-2	5.72	ft.	1302	time
P-3	4.70	ft.	1306	time
MW-7	6.72	ft.	1333	time
MW-9	8.58	ft.	1253	time
MW-10	6.56	ft.	1226	time
MW-12	6.30	ft.	1321	time

Total GET Effluent N/A gal. N/A time

Time req'd: 1 1/4 hr

GET System:

Please record the pressure gauge reading at each of the following locations:

Before bag filter: N/A psi.

After bag filter: N/A psi.

If the pressure differential across the bag filter is greater than 15 psi., was the filter bag exchanged? Yes ____ No ✓

Were all valves opened after replacing the filter bag?

Yes ____ No ✓

Were pumps turned ON after replacing the filter bag?

Yes ____ No ✓

DECON

Del Monte Plant #35 Date: 12-30-94

Were any leaks (standing water or wet spots) seen that originated from GET System piping? Yes ____ No X

If wet spots are noted, briefly describe location. ____

Was sampling performed? Yes ____ No X

If yes, please check from which sample port/s.

A____ B____ C____ D____

Time req'd: ____

Was any maintenance performed on any of the equipment? If so, please describe in detail work performed and time required. ____

Pumpmotor being repaired under warranty. System still down.

Misc. Field Notes: ____

Name (printed): Jason Gulbransen Signature: J. Gulbransen

Start Time: 1230 Finish Time: 1345

DECON

ATTACHMENT D

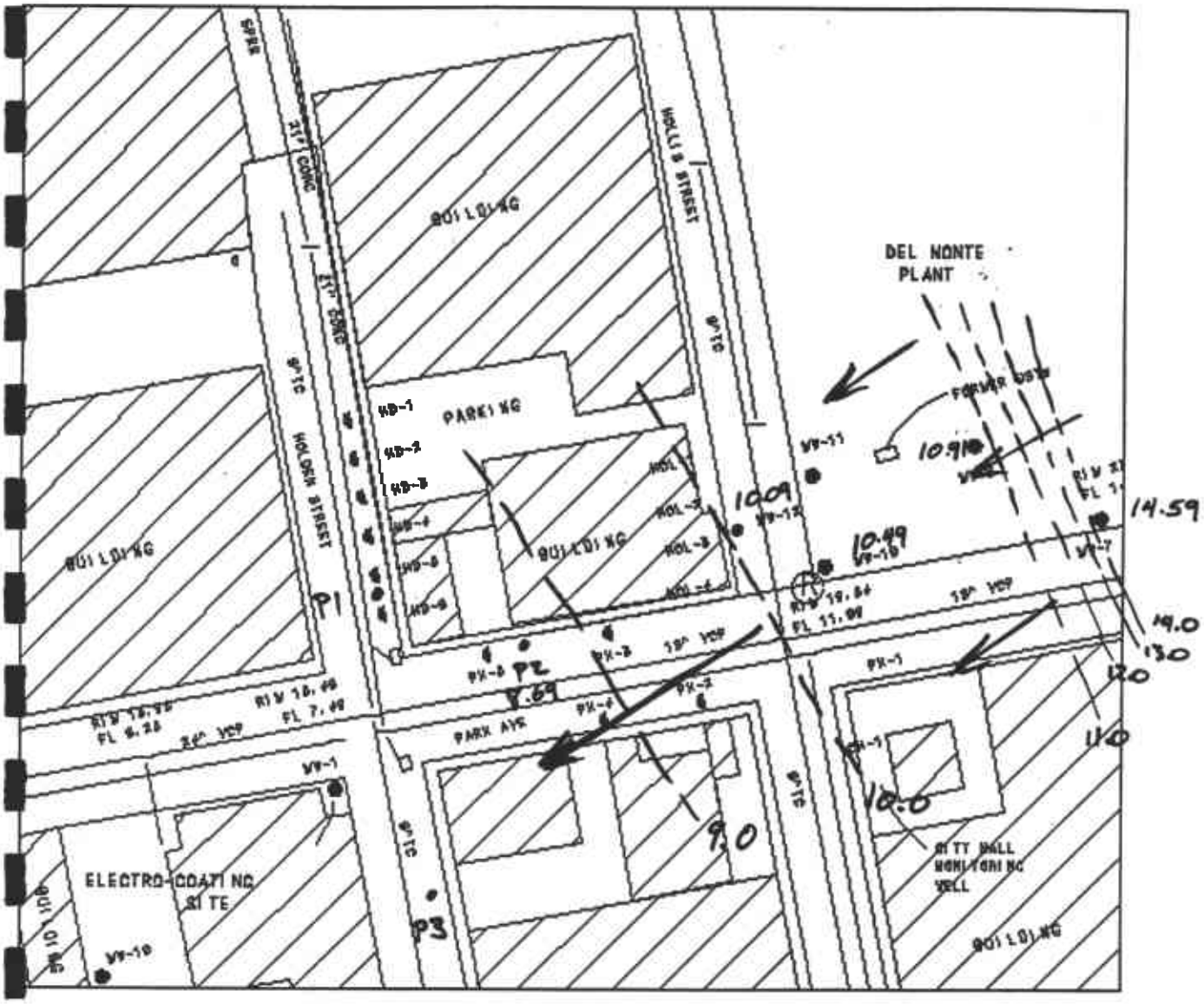
Groundwater Level Measurements

Water Level and Elevation Data
Del Monte Plant 35
Emeryville, California

Monitoring Well	Top of Casing Elevation	8/4/94		8/19/94		8/24/94		9/2/94		9/7/94		9/24/94		10/1/94	
		Depth		Depth		Depth		Depth		Depth		Depth		Depth	
MW-7	22.38			8.22		7.79		7.49		8.06		8.41		8.51	
MW-9	22.28			12.40		11.37		10.35		11.99		12.89		13.04	
MW-10	19.23			12.62		8.74		8.02		9.54		12.11		12.50	
MW-12	18.43			NA		8.34		7.66		9.14		11.35		11.70	
P1	15.27	6.23		NA		6.58		6.39		6.81		6.93		7.12	
P2	16.07	6.00		7.48		NA		6.36		7.03		NA		7.54	
P3	15.17	5.45		NA		NA		5.69		5.98		6.05		6.17	

Monitoring Well	Top of Casing Elevation	10/7/94		10/14/94		10/21/94		10/28/94		11/4/94		11/11/94		12/6/94	
		Depth		Depth		Depth		Depth		Depth		Depth		Depth	
MW-7	22.38	7.92		8.31		8.30		8.38		7.97		6.53		6.82	
MW-9	22.28	11.70		12.89		12.60		12.62		10.75		9.39		10.13	
MW-10	19.23	8.64		12.46		11.56		11.56		8.21		7.63		6.56	
MW-12	18.43	8.21		11.62		10.91		10.89		6.81		7.12		NA	
P1	15.27	6.47		6.89		NA		6.94		6.79		5.02		NA	
P2	16.07	NA		7.32		NA		7.27		6.60		5.40		5.59	
P3	15.17	5.68		5.80		5.42		5.98		5.85		4.02		4.40	

Monitoring Well	Top of Casing Elevation	12/15/94		12/30/94	
		Depth		Depth	
MW-7	22.38	6.18		6.72	
MW-9	22.28	8.12		8.58	
MW-10	19.23	5.81		6.56	
MW-12	18.43	5.46		6.30	
P1	15.27	5.17		5.46	
P2	16.07	5.18		5.72	
P3	15.17	3.98		4.70	


DEL MONTE
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MD-6
PK-1
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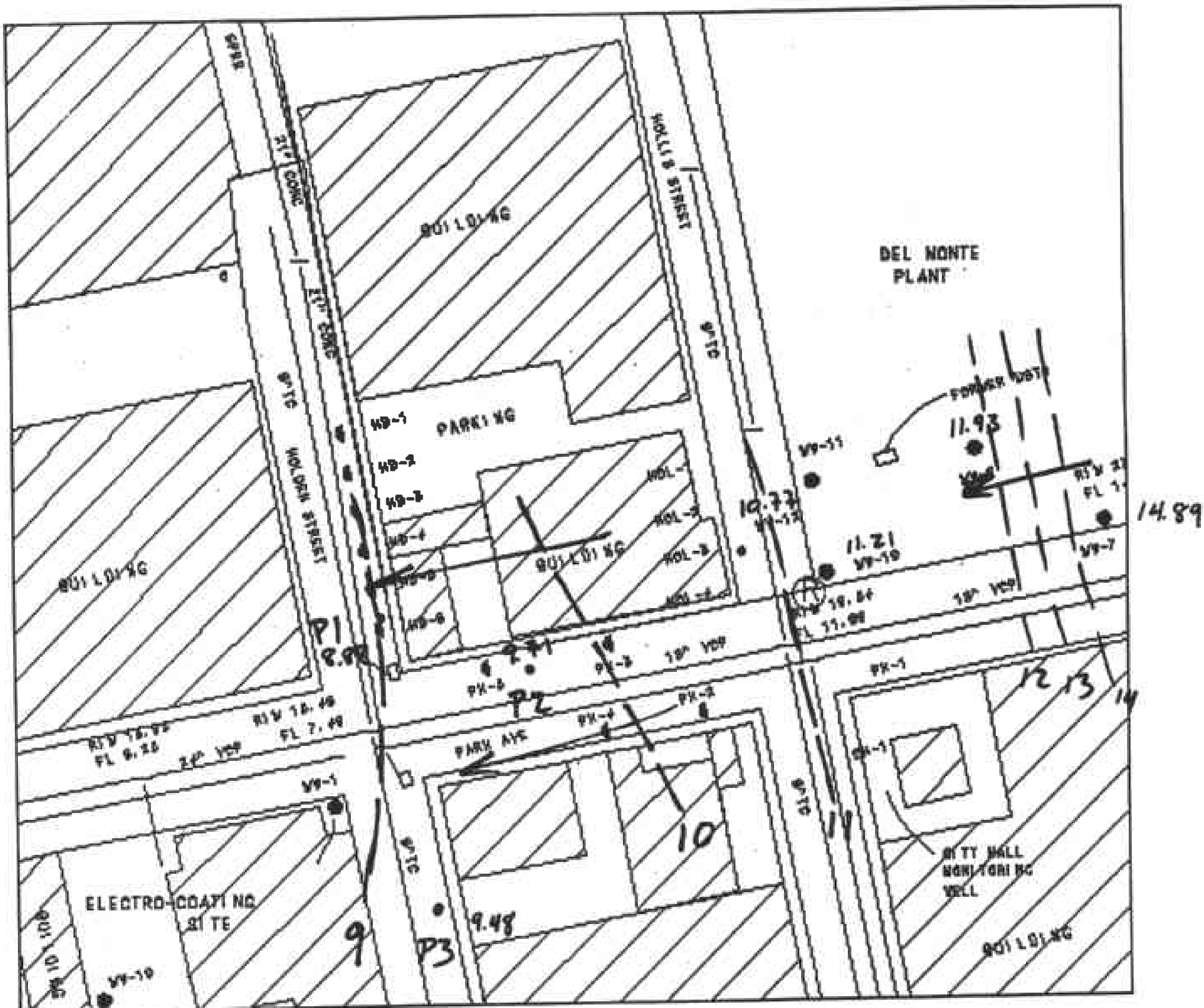
8/24/94



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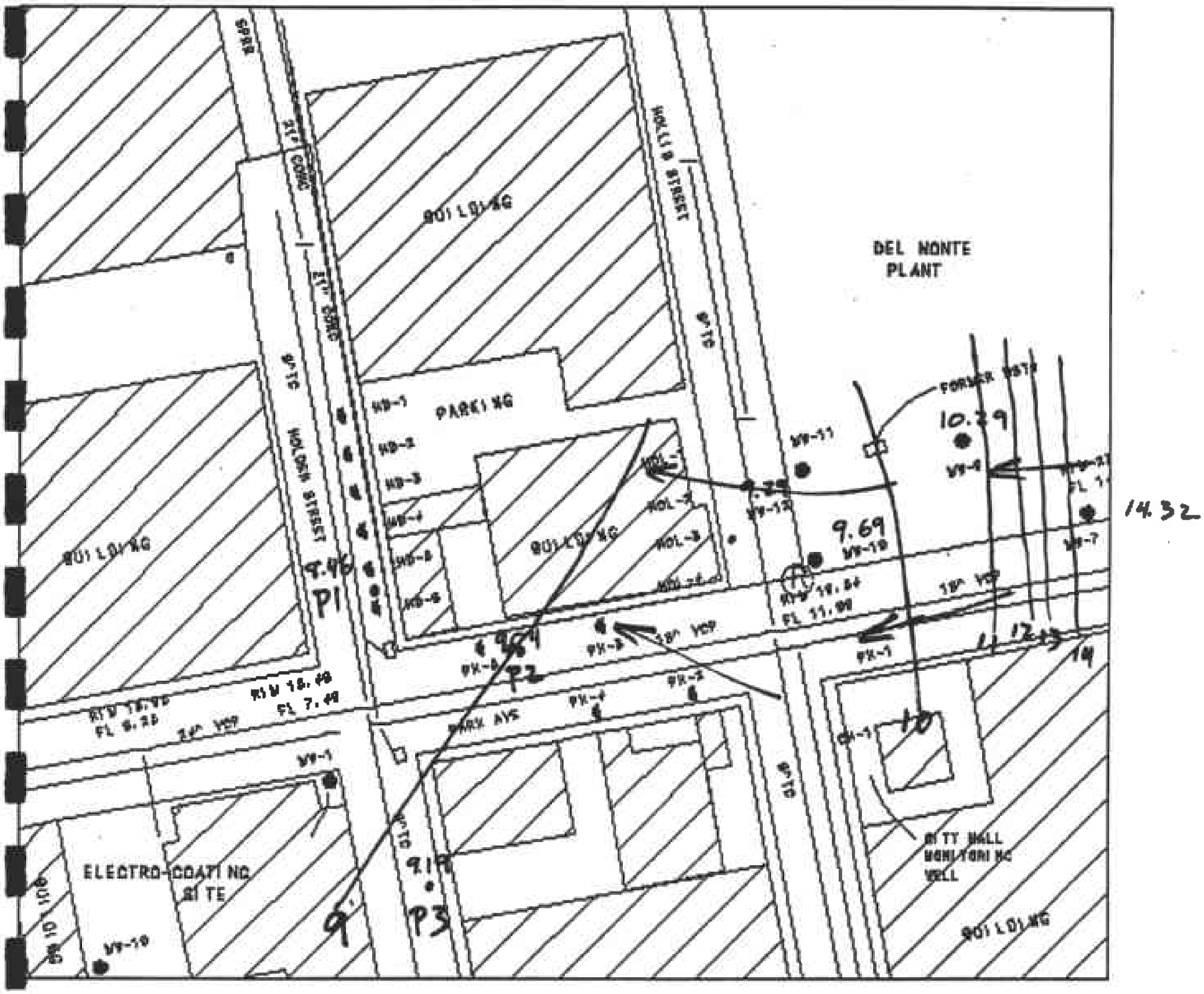
9/2/94



BUILDING
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ELECTRO-COATING
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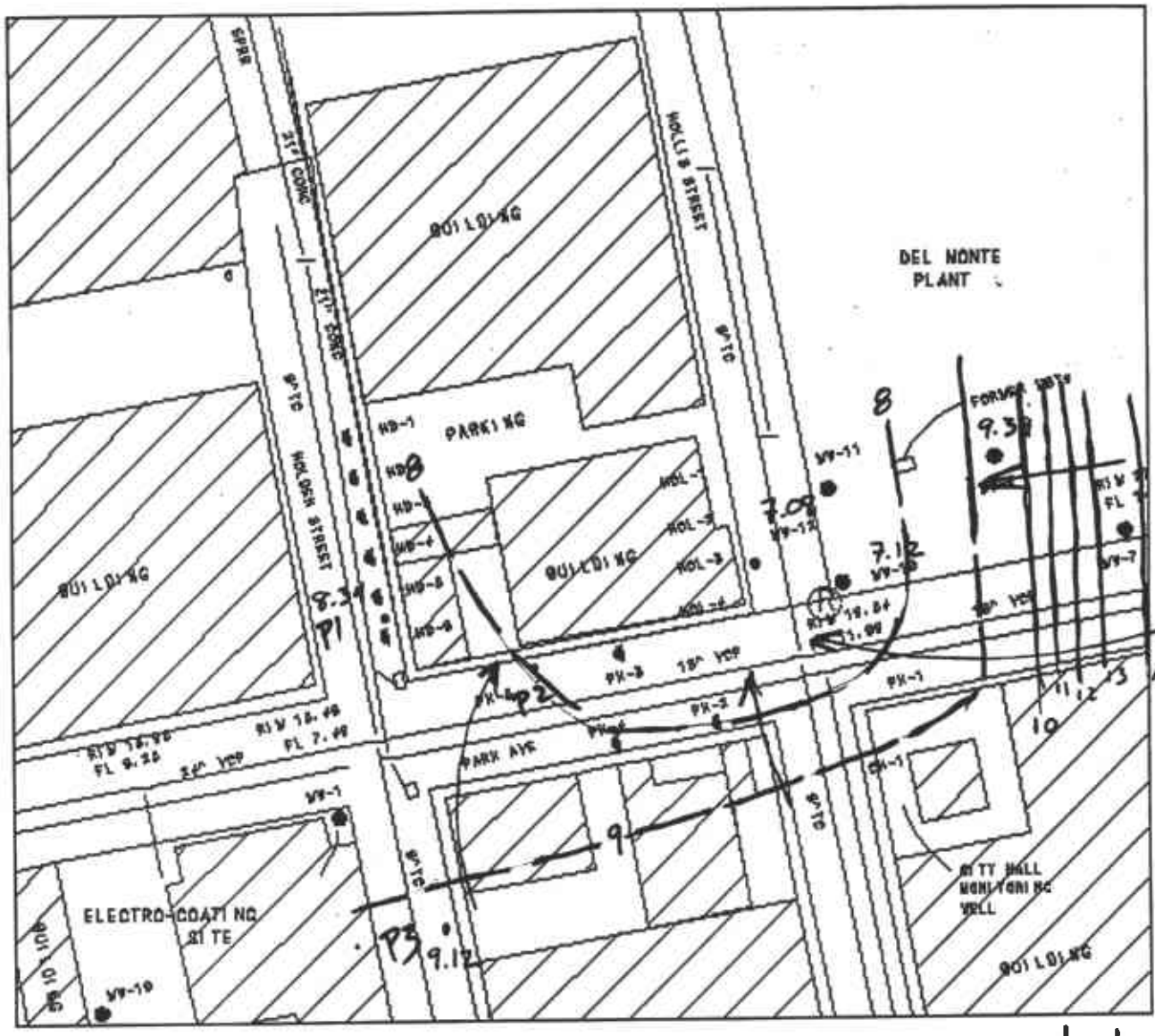
9/7/94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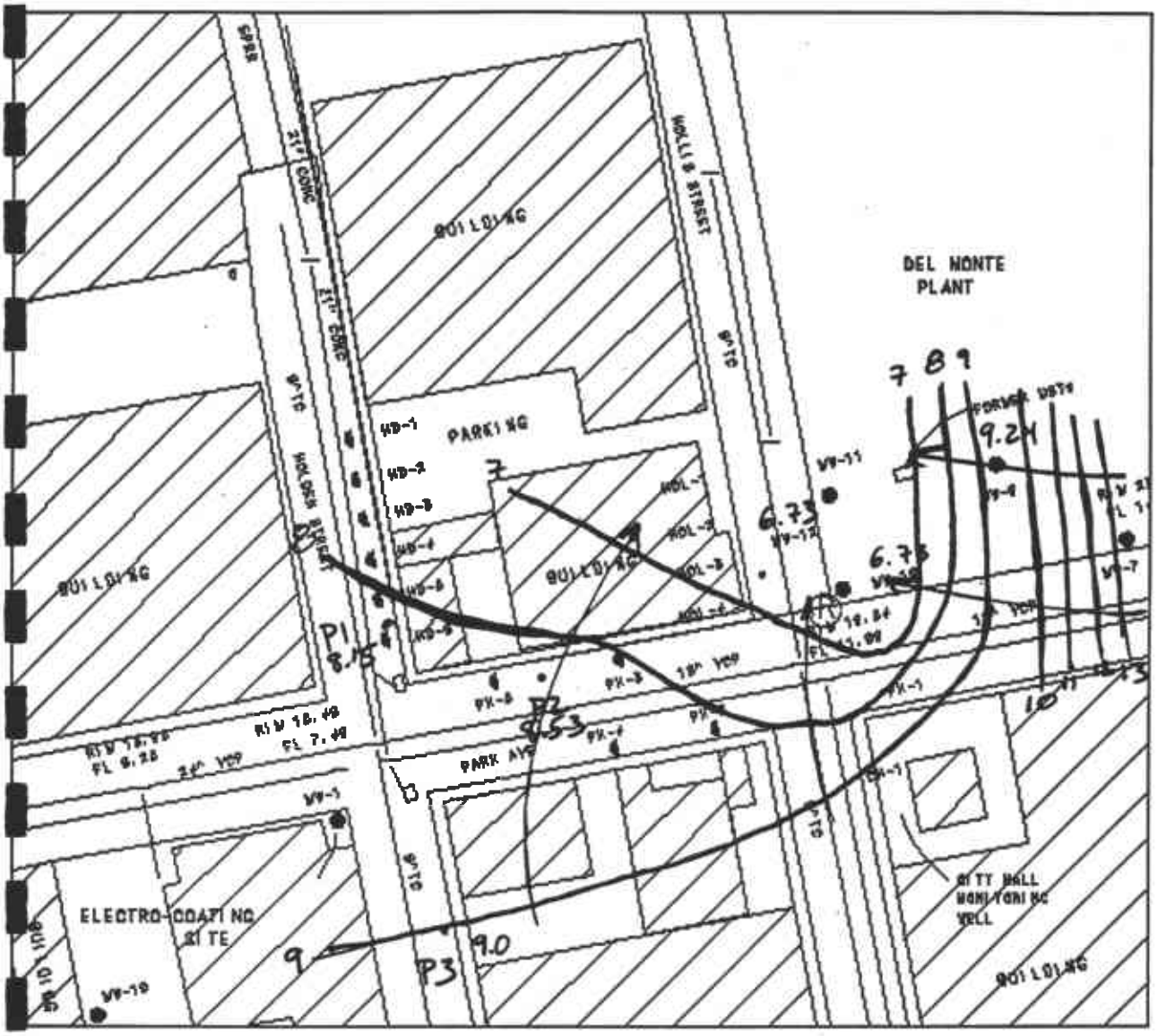
9/24/94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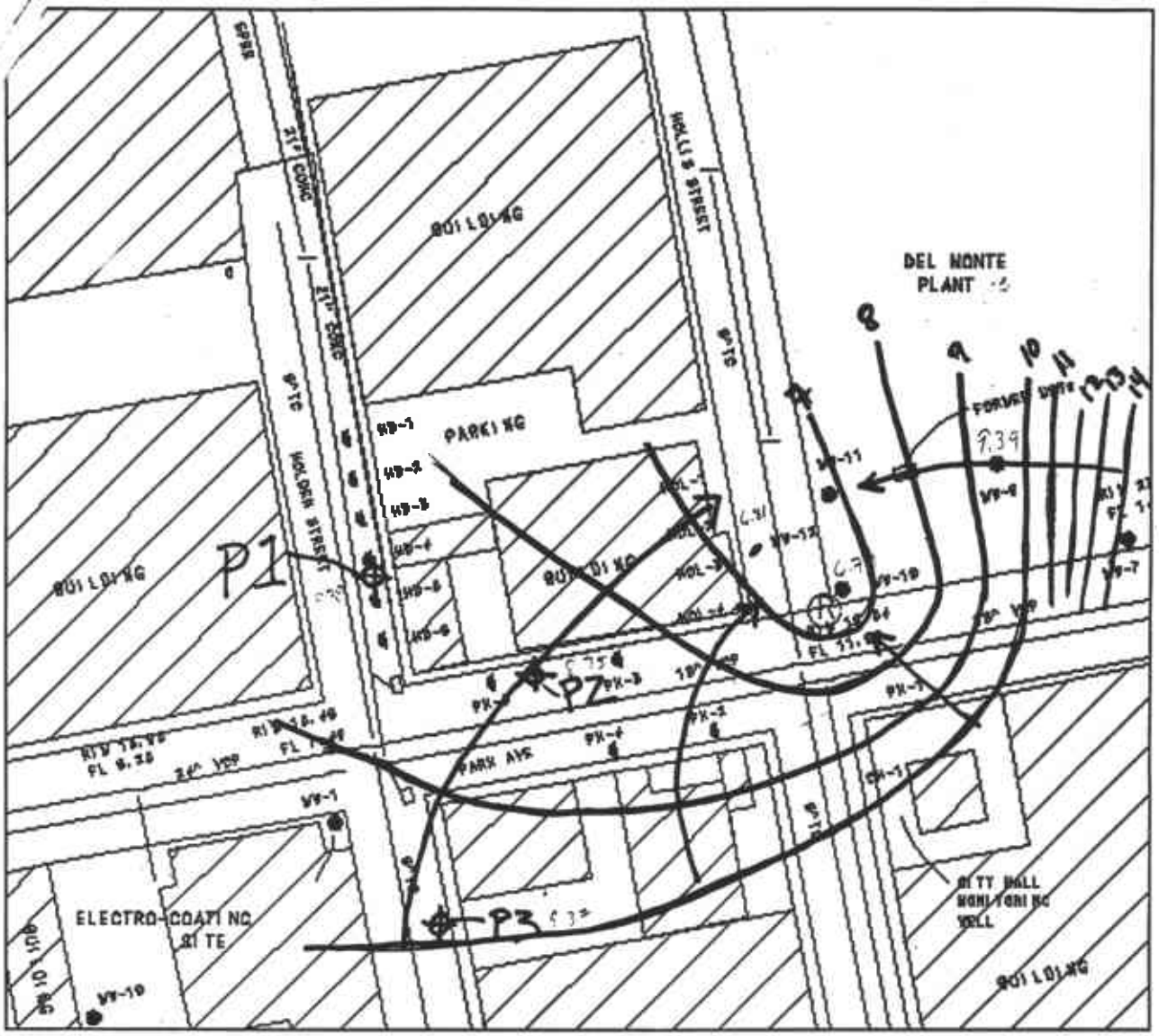
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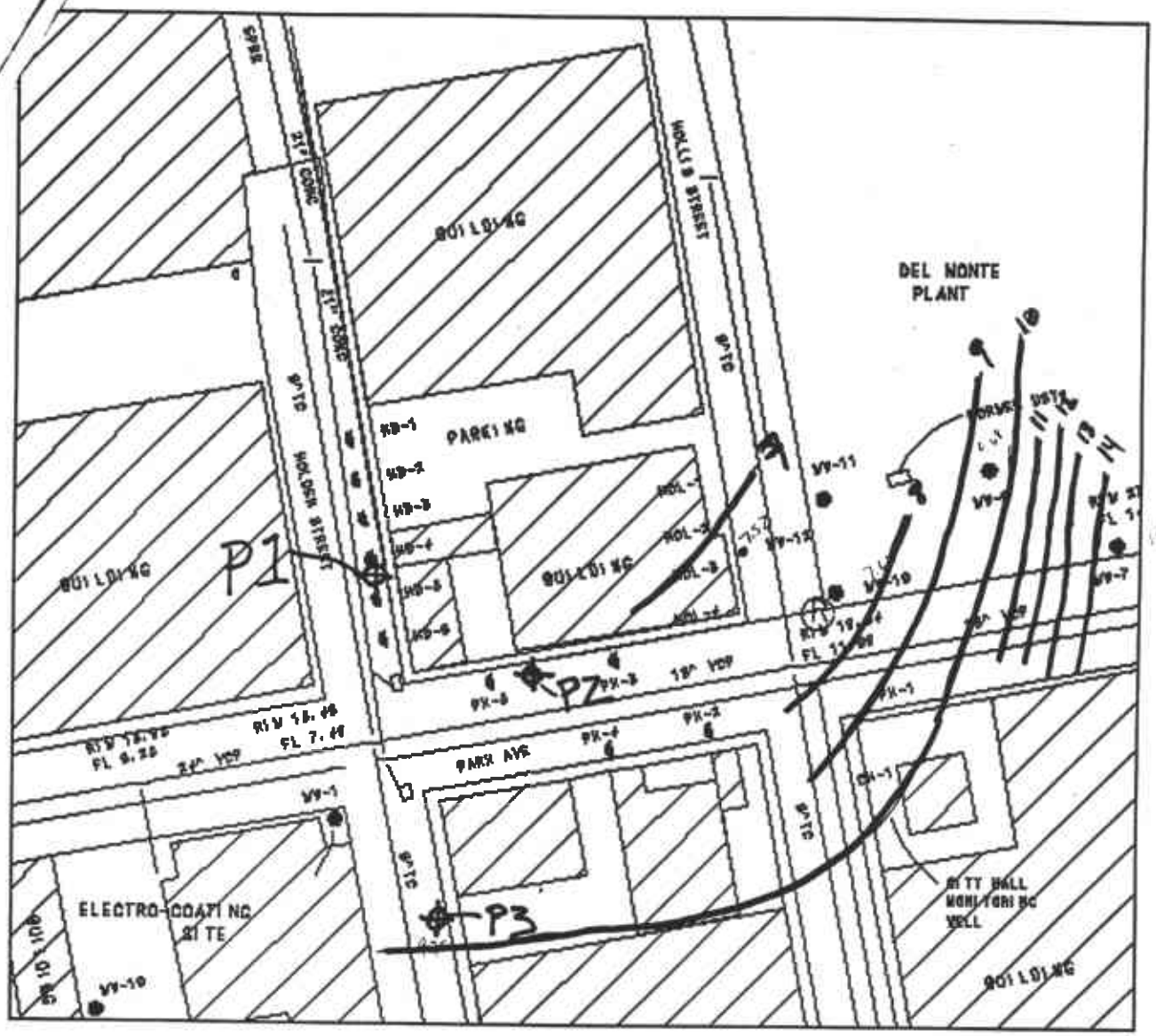
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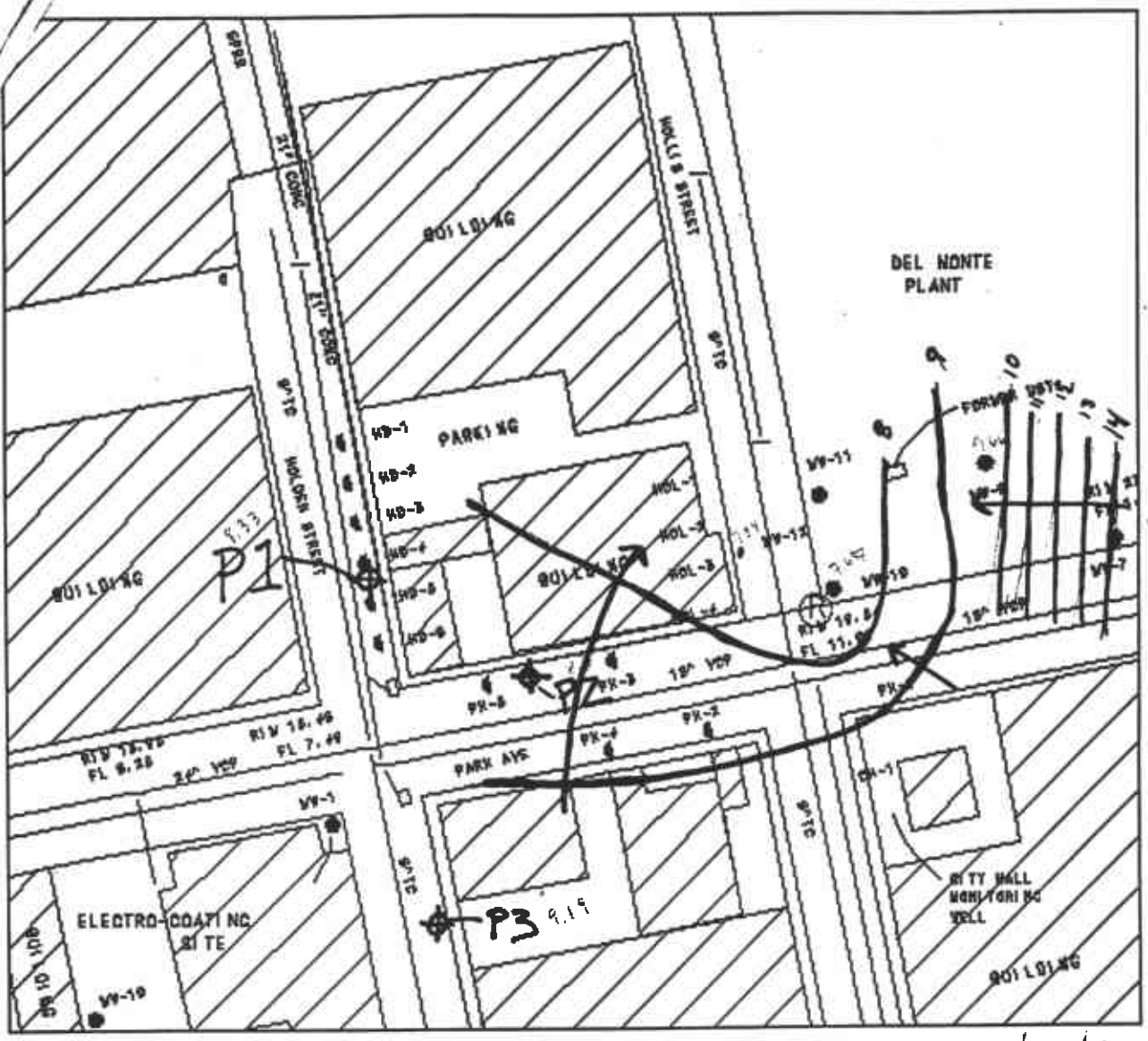
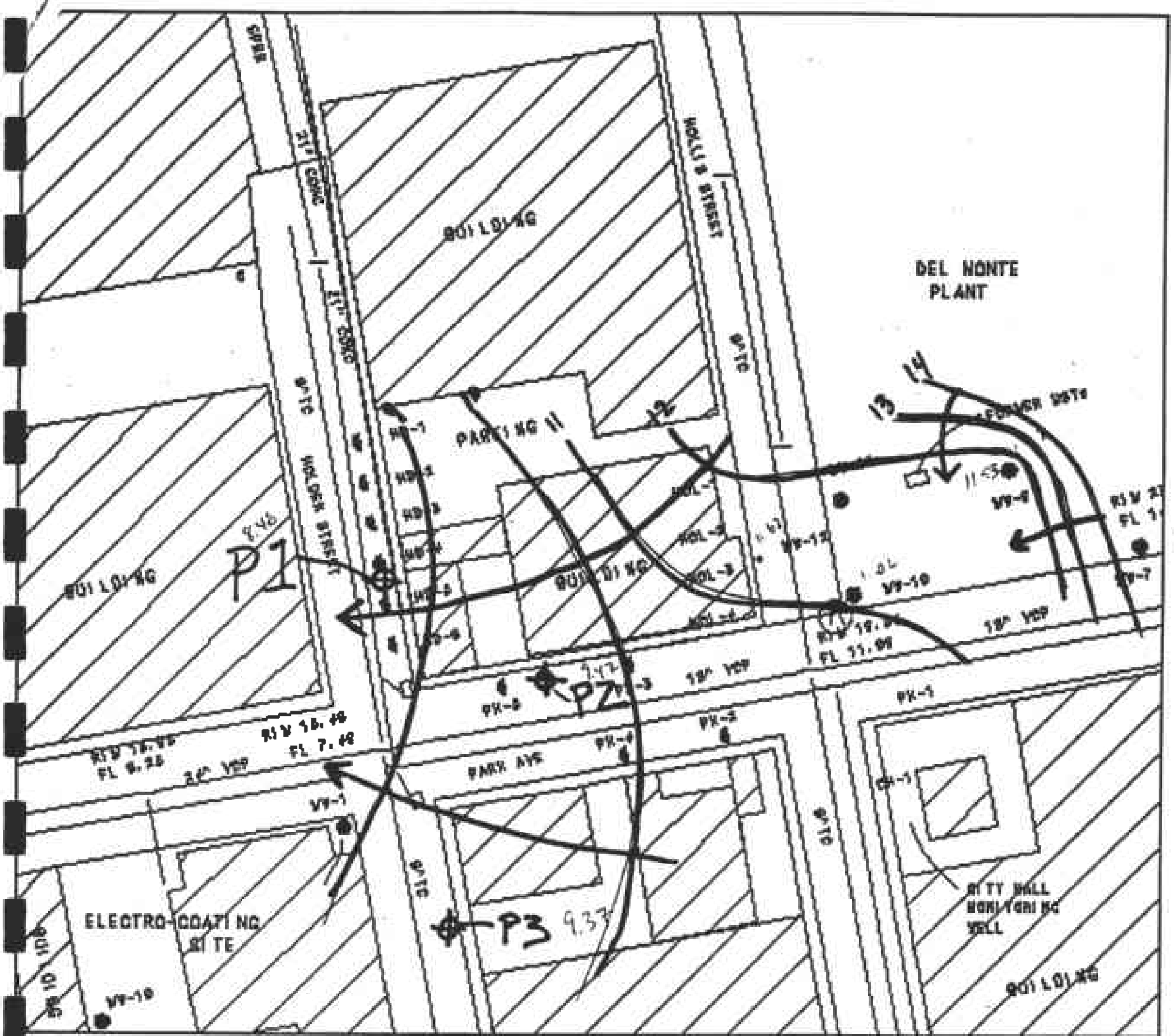
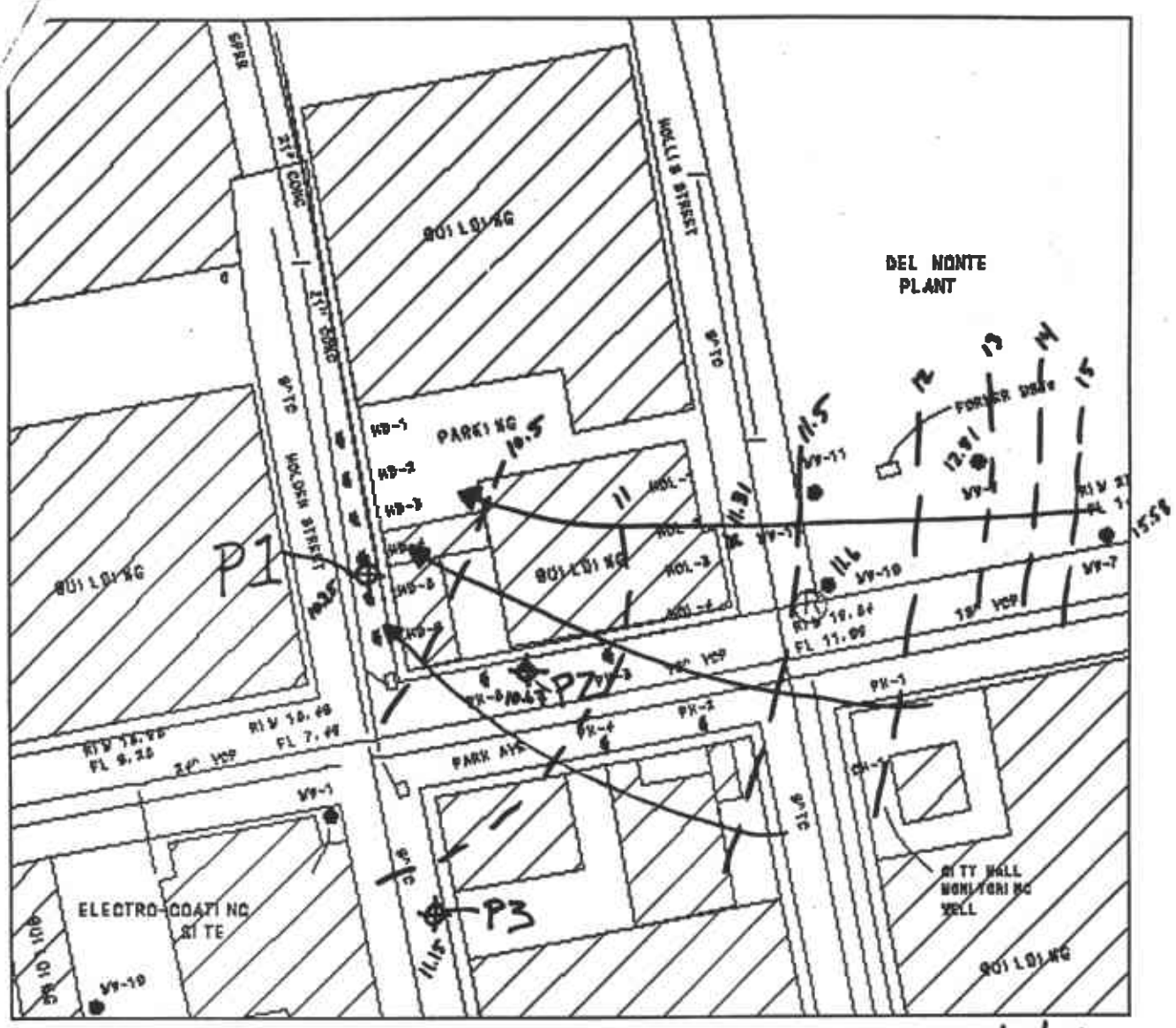
10/21/94


DEL MONTE PLANT
BUILDING
PARKING
HOLLIS STREET
P1
P2
P3
PARK AVE
ELECTRO-COATING SITE
CITY HALL MONITORING WELL
BUILDING

10/25/94


BUILDING
DEL MONTE
PLANT
PARKING
HOLDEN STREET
HOLLIS STREET
PARK AVE
P1
P2
P3
18" VCP
24" VCP
ELECTRO-COATING
SITE
CITY HALL
MONITORING
WELL

11/4/94


DEL MONTE
PLANT
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ELECTRO-COATING
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CITY HALL
MONITORING
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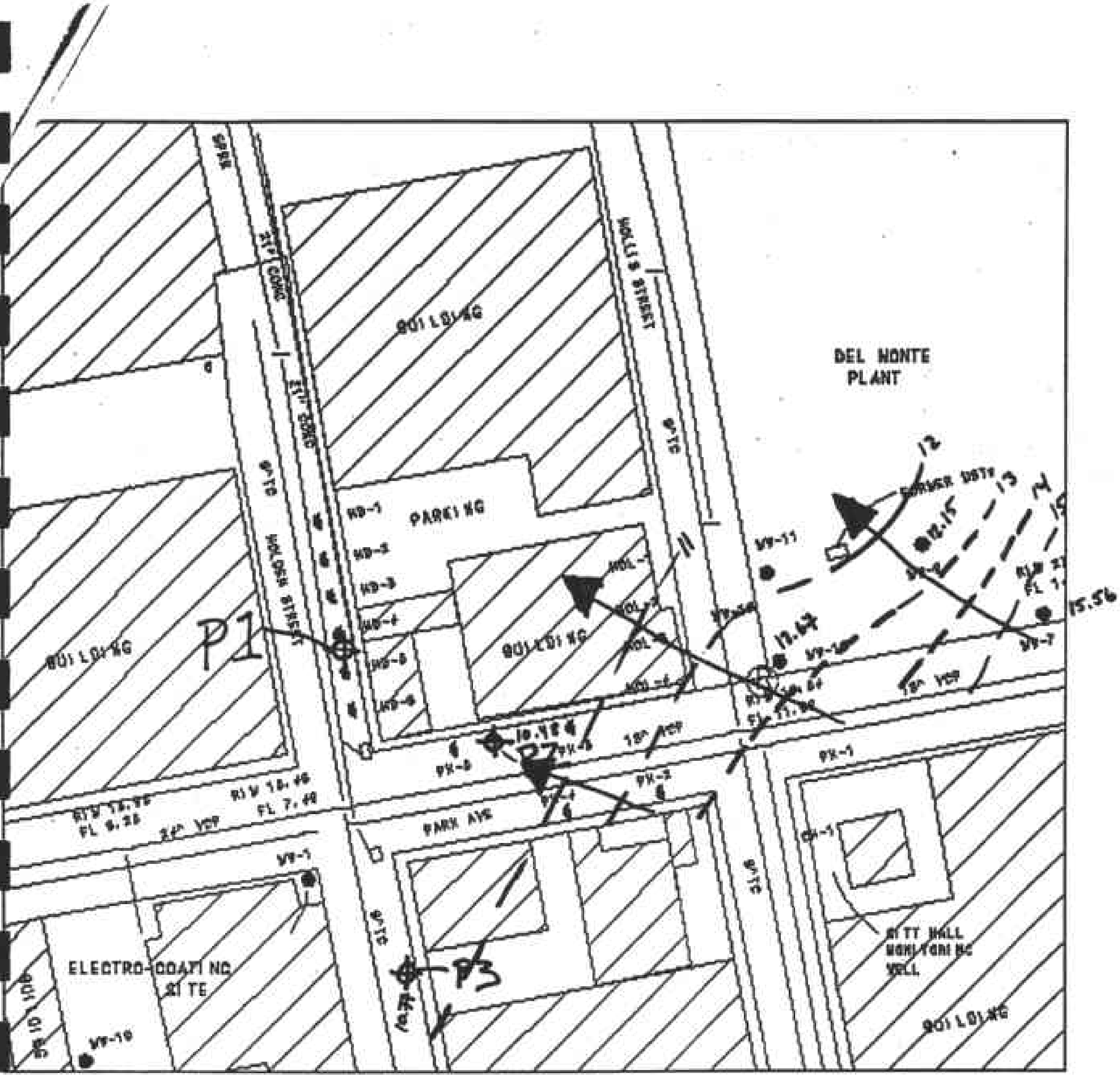
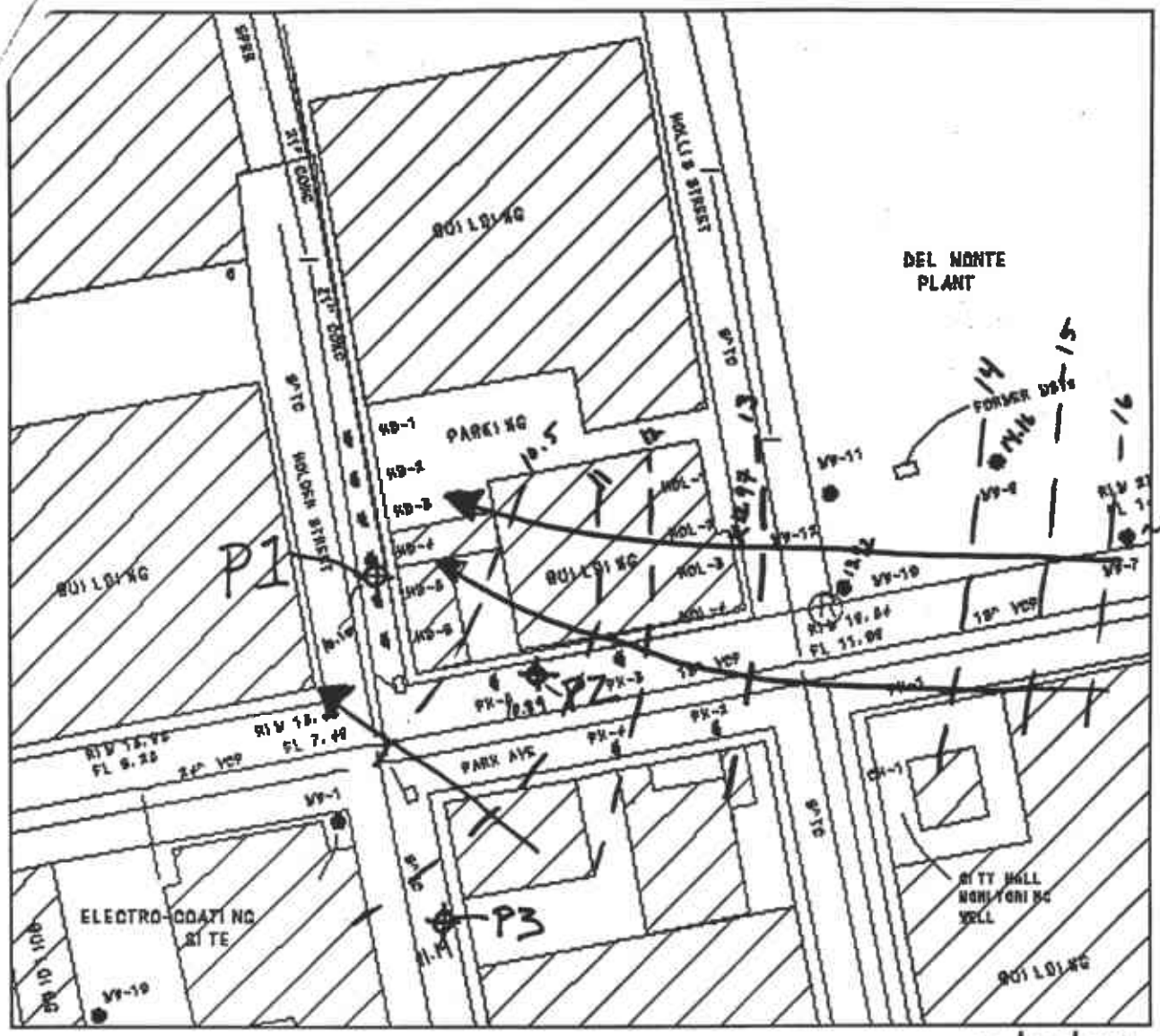
11/11/94


BUILDING
PARKING
DEL MONTE
PLANT
HOLLIS STREET
PARK AVE
ELECTRO-COATING
SITE
P1
P3
12
13
14
15
15.56
12.15
12.64
18" VCP
24" VCP

12/6/94


DEL MONTE
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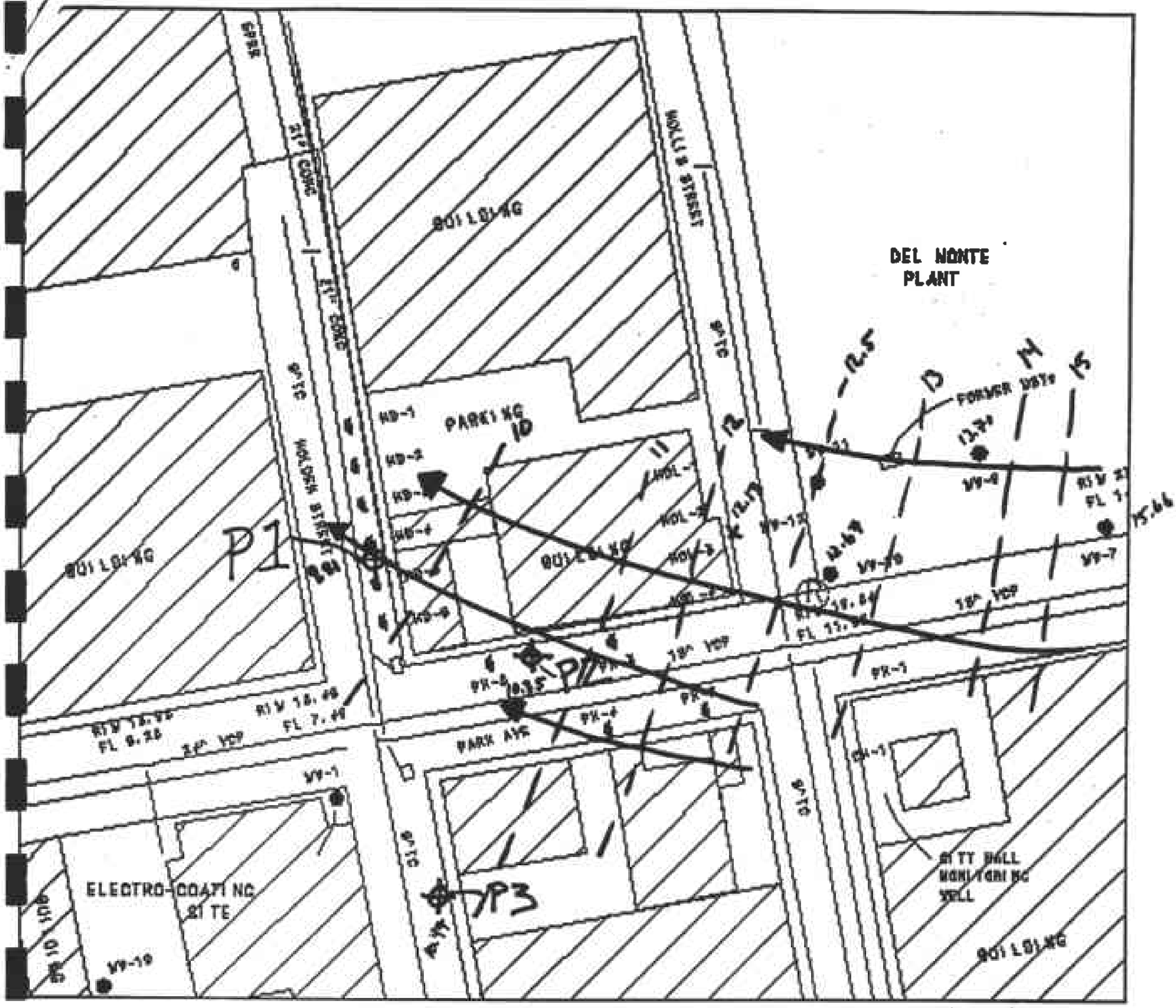
ELECTRO-COATING
SITE
CITY HALL
MONITORING
WELL
FORMER
P1
P2
P3
12/15/94



BUILDING
DEL MONTE
PLANT
PARKING
HOLLIS STREET
ELECTRO-COATING
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CITY HALL
MONITORING
WELL

12/30/94