GROUNDWATER MONITORING
DATA SUMMARY REPORT
THIRD QUARTER 1996

DOUGLAS AIRCRAFT COMPANY
C-6 FACILITY
TORRANCE, CALIFORNIA

K/J 944016.02

Kennedy/Jenks Consultants

GROUNDWATER MONITORING DATA SUMMARY REPORT THIRD QUARTER 1996

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OCTOBER 1996

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1.0 INTRODUCTION

The Douglas Aircraft Company (DAC) C-6 Facility is located at 19503 South Normandie Avenue, Torrance, California (Figure 1). Quarterly groundwater sampling is being conducted in response to the California Regional Water Quality Control Board - Los Angeles Region correspondence to DAC, dated 7 April 1992. This report summarizes laboratory analytical data generated through the chemical analysis of groundwater samples collected 18 and 19 September, Third Quarter 1996.

2.0 QUARTERLY MONITORING PROGRAM

Third Quarter 1996 groundwater sampling was performed in accordance with standard sampling procedures. Static water level depths were measured on 18 September 1996 prior to initiating purging of groundwater from any observation well. Static water depths in monitoring wells (MW-8, MW-9, MW-18 and MW-19) located in the southern portion of the DAC property installed for the Montrose Chemical Corporation Remedial Investigation were not measured for this quarter.

Groundwater samples were collected from the following fifteen wells (Figure 2) and chemically analyzed for volatile organic compounds (VOCs) by EPA Method 8240/8260 for the Third Quarter 1996.

> WCC-1S, WCC-2S, WCC-3S, WCC-4S, WCC-5S, WCC-6S, WCC-7S, WCC-8S, WCC-9S, WCC-10S, WCC-11S, WCC-12S, WCC-1D, WCC-3D, and DAC-P1.

Table 1 summarizes observation well construction details. Tables 2 and 3 summarize the results of chemical analysis of groundwater samples and duplicates for major and minor constituents at the C-6 facility, respectively. Chemicals detected in samples from each observation well are shown in Figure 3. Table 4 summarizes available measured groundwater elevations to date. Estimated groundwater elevation contours for the Third Quarter are presented in Figure 4. Historical chemical concentration profiles for the indicator chemicals trichloroethene and 1,1-dichloroethene are shown in Figure 5. Copies of laboratory data sheets, laboratory/field Quality Control data sheets, groundwater purge and sample forms, and Chain-of-Custody records are included in Appendices A, B, C, and D respectively.

2.1 Groundwater Sampling Procedures

Prior to collecting groundwater samples from each well, groundwater was purged using an electrical submersible pump that was temporarily installed in the observation well. After lowering the pump to the approximate mid-point of the saturated well screen, approximately three to five wetted casing volumes of groundwater were purged from the well until the following groundwater monitoring parameters had stabilized to within 10% of preceding values: pH, electrical conductivity, and temperature. Purged groundwater was stored onsite in DOT approved 55 gallon barrels pending the results of laboratory analysis of samples.

Following groundwater purging, the flow rate of the submersible pump was reduced to 200 milliliters/minute. To collect a representative groundwater sample, the pump intake valve was positioned at the approximate mid-point of the saturated well screen interval. The recovered water was discharged into three labeled 40-ml capacity vials, preserved with HCl.

2.2 Field QA/QC Procedures

Duplicate groundwater samples were collected for the sampling round on 18 and 19 September 1996 for quality control purposes. The duplicates were collected in three HCl-preserved vials and identified by inserting the collection date after "DW-" (DW-091896 and DW-091996). No further sample identification was provided to the laboratory. Duplicate samples were taken on 18 and 19 September from observation wells WCC-1D and WCC-6S, respectively.

Following decontamination of the submersible pump, and prior to collection of groundwater samples from the successive well, an equipment rinsate blank was prepared for laboratory analysis. The equipment rinsate blank was prepared by pouring Reagent Grade II water, prepared by the analytical laboratory, over the pump and collecting the rinsate in two 40-ml vials preserved with HCl. The blank was identified following a similar protocol to that used for duplicate water samples and is identified as "EB" followed by the date. EB091996 was collected after sampling well DAC-P1. Trip blanks were also analyzed for sampling and shipping activities for each day of sampling and are identified as TB-091896 and TB-091996.

All groundwater, duplicate, and field blank samples were transported in ice-cooled chests to Quanterra Environmental Services, Santa Ana, California using U.S. EPA-recommended Chain-of-Custody procedures.

3.0 EVALUATION OF ANALYTICAL RESULTS

3.1 Groundwater Gradient

Groundwater levels were measured prior to sampling on 18 September 1996 (Table 4 and Appendix C). The shallow zone groundwater elevations measured for this quarter ranged from 14.64 feet below mean sea level (MSL) to 15.95 feet below MSL. An estimated potentiometric surface map for the shallow zone as measured on this day is presented as Figure 4. The groundwater gradient in the shallow zone was generally east to east-southeast with a southerly directed trough-like depression between observation wells WCC-12S and WCC-7S.

Insufficient data (two wells) are available to define the groundwater gradient in the deeper zone. Groundwater elevations in the two wells (WCC-1D and WCC-3D) were approximately 15.65 and 15.50 feet below MSL, respectively.

3.2 Analytical Data

The results of chemical analysis of groundwater and duplicate samples are summarized in Tables 2 and 3. Table 2 lists major constituents and Table 3 lists additional minor constituents of samples tested. The duplicate groundwater samples are indicated by an asterisk and are presented with the "original" groundwater samples. These tables include cumulative analytical data for all monitoring wells and detection limits (where available) for the listed chemicals.

The following observations are noted:

- Data for groundwater samples collected from well DAC-P1, located at the upgradient property boundary, indicate a TCE concentration of 15,000 micrograms per liter (µg/L) coming onto DAC's property (Figure 3). Other chemicals detected in well DAC-P1 include 1,1-DCE and toluene. The concentrations of these chemicals were within historical ranges. DAC-P1 is screened in the shallow zone.

- Background concentrations of TCE and 1,1-DCE in the shallow zone upgradient or cross gradient wells decreased in WCC-10S and WCC-11S but increased in WCC-2S. Both contaminants are within historical ranges at concentrations of 98 to 150 µg/L of TCE and 22 to 23 µg/L of 1,1-DCE.

- Groundwater elevation data (Figure 4) and chemical concentration data (Figure 3) indicate that chemical transport in the shallow zone is generally in an southerly and southeasterly direction in the vicinity of buildings 36 and 41. Most chemical concentration data from the eastern boundary observation wells (WCC-5S, and WCC-9S) are within the same range or lower than upgradient or cross gradient "background level" wells (WCC-10S, WCC-2S and WCC-11S).

- In general, variances of the other chemical concentrations since the last sampling remain within typical historical ranges.

- Low concentrations of 1-methylethylbenzene (MEB) were detected for the first time in samples collected from wells WCC-2S, WCC-5S, and WCC-9S at 1.1, 1.2, and 1.1 µg/L, respectively.

- Analytical data from the equipment rinsate blanks, sample duplicates, trip blanks, and laboratory spikes and duplicates are indicative of reliable data.

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TABLE 1

OBSERVATION WELL CONSTRUCTION DETAILS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER, 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
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Well	Date Constructed	Well Diameter (inches)	Total Depth of Borehole (Feet)	Depth of Screened Interval (Feet)	Depth to top of Sand Filter Pack (Feet)	Well Casing Material and Slot Size	Hydrogeologic Unit Screened
WCC-1S[1]	3/26/87	2	91	78-88	72	Schedule 40 PVC0.020-Inch Slots	Shallow
WCC-2S[1]	10/28/87	4	90.5	70-90	63	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-3S[1]	10/26/87	4	92	69-89	64	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-4S[1]	10/27/87	4	91.5	70.5-90.5	65	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-5S[1]	11/24/87	4	91	60.5-91	58.5	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-6S[2]	9/22/89	4	91	60-90	N/A[3]	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-7S[2]	6/8/89	4	90.5	60-90	54	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-8S[2]	6/12/89	4	90	59.5-89.5	54	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-9S[2]	9/21/89	4	91.5	60-90	55	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-10S	6/7/89	4	90.8	60-90	54	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-11S	N/A	4	N/A	60-90(?)	N/A	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-12S	N/A	4	N/A	60-90(?)	N/A	Schedule 40 PVC0.010-Inch Slots	Shallow
DAC-P[1]	9/25/89	4	N/A	60-90(?)	N/A	Schedule 40 PVC0.010-Inch Slots	Shallow
WCC-1D[2]	6/30/89	4	140	120-140	115	Schedule 40 PVC0.010-Inch Slots	Deeper
WCC-3D[2]	6/27/89	4	140	120-140	114	Schedule 40 PVC0.010-Inch Slots	Deeper
MW-8[4]	5/10/89	4	85	65-80	62	PVC blank and 316 Stainless Steel 0.020-inch Slot Screen	Shallow
MW-9[4]	5/9/89	4	85	66-81	61	PVC blank and 316 Stainless Steel 0.020-inch Slot Screen	Shallow
MW-18[4]	3/29/90	4	84	68-83	67	PVC blank and 316 Stainless Steel 0.020-inch Slot Screen	Shallow
MW-19[4]	3/30/90	4	80	63-79	62	PVC blank and 316 Stainless Steel 0.020-inch Slot Screen	Shallow

NOTES:

1. Data from Woodward-Clyde Consultants Phase II Report, May 1988
2. Data from Woodward-Clyde Consultants Phase III Report, March 1990
3. N/A = Not Available
4. Data from Hargis + Associates, Final Draft, Remedial Investigation, Montrose Site, Torrance, Ca, October 1992

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER, 1996
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TORRANCE, CALIFORNIA
K/J 944016.02

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	1,1-DCE	1,1,-DCA	1,1,1-TCA	TCE	MIBK	cis-1,2-DCE	trans-1,2-DCE	CHLOROFORM	BENZENE	TOLUENE	MEK
WCC-1S	03/27/87	2,800	-	300	4,600	-	-	-	-	85	-	-
	*04/13/87	3,700/2,500	-/-	260/120	5,500/3,600	-/-	-/-	-/-	-/-	110	-/-	-/-
	11/12/87	3,000	23	160	5,200	-	-	75	39	160	-	-
	07/13/89	900	<20	67	2,400	<100	<20	<20	<20	<20	<20	-
	08/23/89	1,500	30	<30	2,800	<100	41	<30	<30	<30	<30	-
	11/18/91	1,300	-	-	3,700	-	-	-	-	-	-	-
	06/17/92	1,700	<50	<50	3,800	<100	<5	<50	<50	<50	<50	<100
	09/23/92	1,500	13	16	3,400	<5	<1	14	13	37	1	<5
	12/09/92	1,500	<30	<30	3,100	<100	<30	<30	<30	30	<30	<100
	03/18/93	1,000	13	15	2,100	<5	27	15	14	33	<2	<10
	06/08/93	1,200	<20	<20	2,400	<200	27	<20	<20	35	<20	<400
	08/25/93	1,700	<20	<20	3,300	<200	27	<20	<20	42	<20	<400
	11/19/93	1,600	<20	<20	2,600	<200	25	<20	<20	38	<20	<400
	2/24/94	1,800	<20	<20	2,700	<200	33	21	<20	39	<20	<400
	6/13/94	1,000	11	11	1,700	<100	20	16	<10	<10	<10	<200
	9/9/94	1,400	<40	<40	2,300	<400	<40	<40	<40	<40	<40	<800
	12/22/94	3,000	23	24	3,100	<200	38	36	<20	57	<20	<400
	3/14/95	2,000	<20	<20	2,300	<200	22	22	<20	34	<20	<400
	6/13/95	2,700	20	<20	3,200	<200	29	31	<20	45	<20	<400
	9/7/95	1,800	22	22	2,600	<10	37	37	16	51	<5	<10
	12/15/95*	2,900/2,800	26/26	22/22	2,600/2,500	nr	34/33	40/40	17/16	42/42	<2/<2	nr
	3/04/96	3,000	27	24	2,700	<40	35	45	<20	<20	<20	<40
	6/7/96	2,500	27	20	2,200	nr	28	39	12	7	<5	<10
	9/19/96	3,200	<50	<50	2,400	<500	<50	63	<50	<50	<50	<500

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WELL I.D.	SAMPLE DATE	1,1-DCE	1,1,-DCA	1,1,1-TCA	TCE	MIBK	cis-1,2-DCE	trans-1,2-DCE	CHLOROFORM	BENZENE	TOLUENE	MEK
WCC-2S	11/02/87	5	-	5		-	-	-	-	-	6	-
	11/12/87	2	-	1	4	-	-	-	-	-	1	-
	7/13/89	<1	<1	<1	5	<5	<1	<1	<1	<1	<1	-
	8/23/89	<1	<1	<1	3	<5	<1	<1	<1	<1	<1	-
	11/19/91	30	-	8	110	-	-	-	-	-	75	-
	06/16/92	30	<5	<5	100	<10	<5	<5	<5	<5	<5	<10
	*09/22/92	18/19	<1/<1	<1/<1	110/97	<5/<5	<1/<1	<1/<1	<1/<1	<1/<1	1/1	<5/<5
	*12/08/92	49/27	<1/<1	2/2	140/99	<5/<5	<1/<1	<1/<1	<1/2	<1/<1	<1/<1	<5/<5
	*03/17/93	32/33	<2/<2	<2/<2	110/100	<5/<5	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2	<10/<10
	06/07/93	48	<2	<2	150	<20	<2	<2	<2	<2	<2	<40
	08/24/93	16	<2	<2	90	<20	<2	<2	<2	<2	<2	<40
	11/19/93	41	<2	<2	94	<20	<2	<2	<2	<2	<2	<40
	2/24/94	30	<2	<2	96	<20	<2	<2	<2	<2	<2	<40
	6/10/94	24	<2	<2	97	<20	<2	<2	<2	<2	<2	<40
	9/8/94	37	<2	<2	150	<20	<2	<2	<2	<2	<2	<40
	12/22/94	28	<2	<2	110	<20	<2	<2	<2	<2	<2	<40
	3/13/95	27	<2	<2	160	<20	<2	<2	<2	<2	<2	<40
	6/12/95	30	<2	<2	130	<20	<2	<2	<2	<2	<2	<40
	9/6/95	56	<5	<5	200	<10	<5	<5	<5	<5	<5	<10
	12/15/95	15	<2	<2	60	nr	<2	<2	<2	<2	<2	nr
	3/01/96	<5	<5	<5	21	<10	<5	<5	<5	<5	<5	<10
	6/6/96	7	<5	<5	33	nr	<5	<5	<5	<5	<5	<10
	9/19/96	23	<1	<1	98	<10	<1	<1	<1	<1	<1	<10

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TORRANCE, CALIFORNIA
K/J 944016.02

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	1,1-DCE	1,1,-DCA	1,1,1-TCA	TCE	MIBK	cis-1,2-DCE	trans-1,2-DCE	CHLOROFORM	BENZENE	TOLUENE	MEK
WCC-3S	11/02/87	38,000	-	110,000	10,000	54,000	-	-	-	-	80,000	-
	11/12/87	88,000	1,000	54,000	11,000	70,000	-	1,000	-	-	140,000	-
	7/13/89	18,000	<500	56,000	7,700	<3000	<500	660	<500	<500	32,000	-
	08/23/89	56,000	<1,000	78,000	6,000	<5000	<1,000	<1,000	<1,000	<1,000	56,000	-
	11/14/91	12,000	400	6,900	7,900	70,000	550	550	250	-	27,000	12,000
	06/17/92	25,000	<5,000	13,000	13,000	100,000	<5,000	<5,000	<5,000	<,5000	51,000	<10,000
	09/23/92	22,000	<500	7,800	12,000	82,000	<500	<500	<500	<500	52,000	<3,000
	12/09/92	21,000	<500	5,600	11,000	90,000	700	600	<500	<500	44,000	4,000
	*03/18/93	20,000/20,000	650/510	21,000/22,000	8,800/8,800	44,000/45,000	650/640	640/670	120/110	240/260	42,000/42,000	<50/<50
	06/08/93	16,000	420	5,900	8,600	79,000	520	480	<100	210	37,000	<2,000
	*08/25/93	21,000/20,000	500/560	10,000/9,500	11,000/9,700	50,000/49,000	670/700	680/710	<400/<10	<400/250	46,000/40,000	<8,000/660
	11/19/93	26,000	690	19,000	10,000	47,000	1,100	840	<200	280	50,000	<4,000
	2/24/94	15,000	310	9,600	2,500	15,000	2,500	360	<200	<200	25,000	<4,000
	6/13/94	13,000	310	6,200	820	9,900	4,100	360	<200	<200	23,000	<4000
	*9/9/94	23,000/25,000	520/560	9,000/9,800	<500/<500	6,000/5,000	7,700/8,400	600/640	<500/<500	<500/<500	43,000/47,000	<10000/<10000
	12/22/94	20,000	440	6,700	390	3,400	6,700	530	<200	200	35,000	<4,000
	3/14/95	24,000	570	8,700	2,300	4,600	6,200	670	<200	230	40,000	<4,000
	6/13/95	22,000	450	4,800	1,200	6,600	6,300	500	<400	<400	39,000	<8000
	9/7/95	13,000	480	4,100	910	4,600	6,000	520	76	220	31,000	<200
	12/16/95	12,000	350	3,100	670	nr	4,400	400	45	130	**23000	nr
	3/04/96	8,400	230	1,900	480	200	3,200	280	<50	100	15,000	<100
	3/4/96	11,000	310	2,400	240	nr	3,400	340	38	110	18,000	32
	9/19/96	20,000	600	3,500	<500	<5000	6,300	860	<500	<500	29,000	<5000

BOE-C6-0193019

TABLE 2

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WELL I.D.	SAMPLE DATE	1,1-DCE	1,1,-DCA	1,1,1-TCA	TCE	MIBK	cis-1,2-DCE	trans-1,2-DCE	CHLOROFORM	BENZENE	TOLUENE	MEK
WCC-4S	11/02/87	360	-	14	700	-	-	2	2	-	-	-
	11/12/87	1,200	-	35	690	-	-	-	-	-	-	-
	7/13/89	170	<3	11	270	-	10	<3	<3	<3	<3	-
	08/23/89	360	<5	7	410	<20	15	<5	<5	<5	<5	-
	11/18/91	1,000		20	2,200	<30	-	-	-	-	-	-
	06/17/92	920	<25	<25	1,500	<50	<25	<25	<25	<25	<25	<50
	09/23/92	1,400	<10	20	1,900	<50	<10	<10	10	<10	<10	<50
	12/08/92	1,000	<10	20	1,600	<50	10	<10	10	<10	<10	<50
	03/17/93	810	8	14	1,200	<5	8	5	5	6	<2	<10
	06/08/93	1,300	<10	12	1,800	<100	10	<10	<10	<10	<10	<200
	08/25/93	1,100	<10	<10	1,400	<100	<10	<10	<10	<10	<10	<200
	11/19/93	610	17	8	700	<40	6	5	<4	4	9	<80
	2/24/94	1,100	5.8	8.8	980	<40	8.7	7.2	5.1	6.4	<4	<80
	6/14/94	800	<4	5	940	<40	7	5	<4	<4	<4	<80
	9/9/94	1,000	<20	<20	1,300	<200	<20	<20	<20	<20	<20	<400
	12/22/94	670	<10	<10	750	<100	<10	<10	<10	<10	<10	<200
	3/14/95	400	10	5	450	<40	5	<4	<4	<4	<4	<80
	6/13/95	1,100	9	<6.6	1,100	<66	8	<6.6	<6.6	7	<6.6	<130
	9/7/95	910	8	6	1,200	<10	10	9	7	13	<5	<10
	12/15/95	1,100	4	<2	1,200	nr	8	7	4	2	<2	nr
	3/04/96	710	<5	<5	770	<10	6	6	<5	<5	<5	<10
	6/7/96	740	<5	<5	830	nr	5	<5	<5	<5	<5	<10
	9/19/96	980	<25	<25	960	<250	<25	<25	<25	<25	<25	<250

BOE-C6-0193020

TABLE 2

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K/J 944016.02

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	1,1-DCE	1,1,-DCA	1,1,1-TCA	TCE	MIBK	cis-1,2-DCE	trans-1,2-DCE	CHLOROFORM	BENZENE	TOLUENE	MEK
WCC-5S	11/30/87	7	-	1	-	-	-	-	-	-	1	-
	01/08/88	4	-	10	-	-	-	-	-	-	-	-
	*07/13/89	3/3	<1/<1	13/12	<5/<5	<1/<1	6/6	<1/<1	<1/<1	<1/<1	<1/<1	-
	08/23/89	<1	<1	12	<5	<1	4	<1	<1	<1	<1	-
	11/19/91	20	-	-	8	-	-	-	-	-	7	-
	06/15/92	28	<5	<5	7	<10	<5	<5	<5	<5	<5	<10
	09/21/92	21	<1	<1	5	<5	<1	<1	<1	<1	<1	<5
	12/07/92	21	<1	<1	5	<5	<1	<1	<1	<1	<1	<5
	03/16/93	18	<2	<2	4	<5	<2	<2	<2	<2	<2	<10
	06/07/93	22	<2	<2	4	<20	<2	<2	<2	<2	<2	<40
	08/24/93	23	<2	<2	5	<20	<2	<2	<2	<2	<2	<40
	11/18/93	21	<2	<2	3	<20	<2	<2	<2	<2	<2	<40
	2/23/94	20	<2	<2	4	<20	<2	<2	<2	<2	<2	<40
	*6/10/94	25/25	<2/<2	<2/<2	3.4/3.4	<20<20	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2	<40/<40
	9/8/94	18	<2	<2	3.3	<20	<2	<2	<2	<2	<2	<40
	12/21/94	18	<2	<2	2.9	<20	<2	<2	<2	<2	<2	<40
	3/13/95	14	<2	<2	2.8	<20	<2	<2	<2	<2	<2	<40
	6/12/95	19	<2	<2	3.2	<20	<2	<2	<2	<2	<2	<40
	9/6/95	18	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
	12/12/95	15	<2	<2	3	nr	<2	<2	<2	<2	<2	nr
	2/29/96	10	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
	6/6/96	9	<5	<5	<5	<10	<5	<5	<5	<5	<5	<10
	9/18/96	10	<1	<1	3.1	<10	<1	<1	<1	<1	<1	<10

BOE-C6-0193021

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER, 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 944016.02

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	1,1-DCE	1,1,-DCA	1,1,1-TCA	TCE	MIBK	cis-1,2-DCE	trans-1,2-DCE	CHLOROFORM	BENZENE	TOLUENE	MEK
WCC-6S	10/06/89	210	4	130	140	<5	12	7	<1	<1	<1	-
	11/16/91	5,800		5,000		17,000	-	-	-	-	35,000	21,000
	06/17/92	5,400	<500	2,100	3,000	7,600	<500	<500	<500	<500	15,000	6,300
	09/23/92	5,900	94	1,300	3,100	7,500	200	170	20	67	10,000	3,600
	*12/09/92	3,700/5,600	80/<100	680/1,400	2,700/3,200	3,400/<500	200/200	100/200	<50/<100	80/<100	5,000/10,000	3,000/5,000
	03/17/93	3,200	50	1,200	1,400	3,900/<500	<10	80	15	40	10,000	3,800
	06/08/93	5,500	<100	1,900	2,100	13,000	260	120	<100	<100	21,000	7,800
	08/25/93	5,400	<100	2,100	1,900	11,000	630	130	<100	<100	19,000	7,600
	11/19/93	2,200	42	440	670	4,700	480		<10	24	4,900	3,100
	2/24/94	11,000	91	2,200	1,800	13,000	1,400	140	21	52	20,000	4,400
	*6/13/94	5,800/6,300	87/<100	1,900/1,500	1,400/1,300	4,400/5,200	1,600/1,400	130/100	18/<100	52/<100	12,000/<13,000	1,400/<2,000
	9/9/94	Not sampled; well head obstructed										
	12/22/94	9,100	<200	1,300	1,900	4,800	2,500	<200	<200	<200	16,000	<4,000
	3/14/95	3,000	38	200	930	390	850	60	<20	25	2,300	<400
	6/13/95	9,800	130	810	510	450	4,200	180	28	82	8,400	<400
	*9/7/95	4,300/3,800	55/70	370/310	620/520	240/180	2,400/2,200	83/99	14/19	50/56	2,900/2,500	12/11
	12/16/95	11,000	120	1,400	2,000	nr	2,600	160	28	66	4,900	nr
	3/04/96	8,300	93	1,600	2,000	350	2,000	140	<50	56	3,900	340
	6/7/96	9,300	88	1,700	2,400	nr	3,000	120	<25	54	6,500	960
	*9/19/96	8,800/8,800	<250/110	890/950	2,000/2,200	<2,500/<1,000	1,800/1,800	250/160	<250/<100	<250/<100	4,000/4,300	<2,500/<1,000

BOE-C6-0193022

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER, 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 944016.02

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	1,1-DCE	1,1,-DCA	1,1,1-TCA	TCE	MIBK	cis-1,2-DCE	trans-1,2-DCE	CHLOROFORM	BENZENE	TOLUENE	MEK
WCC-7S	07/13/89	850	<10	110	1,300	<50	26	11	<10	<10	<10	-
	08/23/89	1,100	<30	66	1,400	<100	31	<30	<30	<30	<30	-
	11/18/91	390	-	-	1,200	-	-	-	-	-	-	-
	06/17/92	230	<5	<5	560	<10	<5	<5	<5	<5	<5	<10
	09/23/92	140	<5	<5	570	<30	<5	<5	<5	<5	<5	<30
	12/08/92	140	<5	<5	430	<30	<5	<5	<5	<5	<5	<30
	03/17/93	77	<2	<2	200	<5	4	<2	<2	<2	<2	<10
	06/07/93	120	<2	<2	330	<20	4	<2	<2	<2	<2	<40
	08/25/93	70	<4	<4	210	<40	4	<4	<4	<4	<4	<80
	11/19/93	56	<2	<2	130	<20	<2	<2	<2	<2	<2	<40
	2/24/94	75	<2	<2	140	<20	2.5	<2	<2	<2	<2	<40
	6/13/94	58	<2	<2	110	<20	3	<2	<2	<2	<2	<40
	9/8/94	50	13	<2	250	<20	<2	<2	<2	<2	<2	<40
	12/22/94	94	<2	<2	94	<20	<2	<2	<2	<2	<2	<40
	3/14/95	53	<2	<2	84	<20	<2	<2	<2	<2	<2	<40
	*6/13/95	110/98	<2/<2	<2/<2	230/220	<20/<20	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2	<40/<40
	9/7/95	150	<5	<5	200	<10	<5	<5	<5	<5	<5	<10
	12/15/95	98	<2	<2	140	nr	<2	<2	<2	<2	<2	nr
	3/01/96	91	<5	<5	120	<10	<5	<5	<5	<5	<5	<10
	6/7/96	100	<5	<5	130	<10	<5	<5	<5	<5	<5	<10
	9/19/96	120	<2	<2	150	<20	<2	<2	<2	<2	<2	<20

BOE-C6-0193023

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER, 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 944016.02

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	1,1-DCE	1,1,-DCA	1,1,1-TCA	TCE	MIBK	cis-1,2-DCE	trans-1,2-DCE	CHLOROFORM	BENZENE	TOLUENE	MEK
WCC-8S	07/13/89	430	<5	160	240	<30	7	9	<5	<5	<5	-
	08/23/89	820	<5	130	430	<30	7	<5	<5	<5	<5	-
	11/15/91	2,600	-	400	3,000	-	40	40	25	-	120	-
	*06/17/92	2,200/2,300	<25/<50	180/180	2,400/2,600	<50/<100	<25/<50	<25/<50	<25/<50	<25/<50	<25/<50	<50/<100
	09/23/92	2,800	<20	200	3,100	<100	<20	20	20	<20	<20	<100
	12/08/92	2,000	<20	100	2,500	<100	20	30	20	20	<20	<100
	03/17/93	1,800	11	180	1,500	<5	15	26	10	15	<2	<10
	06/08/93	3,000	<20	300	2,000	<200	<20	40	<20	<20	<20	<400
	08/25/93	3,100	<20	330	2,200	<200	<20	45	<20	<20	<20	<400
	11/19/96	3,300	<20	330	2,000	<200	<20	50	<20	24	<20	<400
	2/24/94	3,400	<20	300	1,200	<200	<20	35	<20	<20	<20	<400
	6/13/94	4,000	<40	290	2,200	<400	<40	44	<40	<40	<40	<800
	9/9/94	4,600	<50	280	3,100	<500	<50	<50	<50	<50	<50	<1000
	12/22/94	4,000	<20	230	2,100	<200	<20	43	<20	25	<20	<400
	3/14/95	4,500	<40	220	2,600	<400	<40	41	<40	<40	<40	<800
	6/13/95	4,200	<40	150	2,400	<400	<40	<40	<40	<40	<40	<800
	9/7/95	2,200	10	110	1,700	<10	15	28	9	22	<5	<10
	12/15/95	4,200	16	120	2,300	nr	18	40	<2	10	<2	nr
	*3/01/96	3,500/3,600	<20/<20	120/120	2,100/2,200	<40/<40	<20/<20	40/41	<20/<20	<20/<20	<20/<20	<40/<40
	6/7/96	3,300	11	91	2,000	nr	12	32	10	<5	<5	<10
	9/19/96	3,400	<50	59	1,900	<500	<50	<50	<50	<50	<50	<500

BOE-C6-0193024

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER, 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 944016.02

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	1,1-DCE	1,1,-DCA	1,1,1-TCA	TCE	MIBK	cis-1,2-DCE	trans-1,2-DCE	CHLOROFORM	BENZENE	TOLUENE	MEK
WCC-9S	10/06/89	<1	<1	<1	15	<5	7	<1	<1	<1	<1	-
	11/19/91	-	-	-	20	-	-	-	-	-	-	-
	06/15/92	7	<5	<5	42	<10	<5	<5	<5	<5	<5	<10
	09/21/92	6	<1	<1	45	<5	2	<1	6	<1	<1	<5
	12/07/92	10	<1	<1	51	<5	<1	<1	12	<1	<1	<5
	03/16/93	6	<2	<2	23	<5	3	<2	11	<2	<2	<10
	*06/07/93	11/11	<2/<2	<2/<2	42/39	<20/<20	<2/<2	<2/<2	18/17	<2/<2	<2/<2	<40/<40
	08/24/93	5	<2	<2	26	<20	4	<2	<2	<2	<2	<40
	11/18/93	5	<2	<2	43	<20	<2	<2	7	<2	<2	<40
	2/23/94	<4	<2	<2	31	<20	2	<2	4	<2	<2	<40
	6/10/94	<4	<2	<2	28	<20	4	<2	3	<2	<2	<40
	9/8/94	<4	<2	<2	38	<20	3	<2	4	<2	<2	<40
	*12/21/94	<4/<4	<2/<2	<2/<2	22/26	<20/<20	3.1/3.3	<2/<2	3.0/3.1	<2/<2	<2/<2	<40/<40
	3/13/95	7	<2	<2	56	<20	<2	<2	8	<2	<2	<40
	*6/12/95	<4/<4	<2/<2	<2/<2	23/21	<20/<20	<2/<2	<2/<2	6.4/6	<2/<2	<2/<2	<40/<40
	9/6/95	11	<5	<5	64	<10	<5	<5	19	<5	<5	<10
	12/12/95	4	<2	<2	18	nr	3	<2	4	<2	<2	nr
	2/29/96	<5	<5	<5	17	<10	<5	<5	<5	<5	<5	<10
	6/6/96	<5	<5	<5	15	nr	<5	<5	<5	<5	<5	<10
	9/18/96	2.2	<1	<1	17	<10	2.9	<1	3.9	<1	<1	<10

BOE-C6-0193025

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER, 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 944016.02

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	1,1-DCE	1,1,-DCA	1,1,1-TCA	TCE	MIBK	cis-1,2-DCE	trans-1,2-DCE	CHLOROFORM	BENZENE	TOLUENE	MEK
WCC-10S	*07/13/89	2/1	<1/<1	<1/<1	86/87	<5/<5	<1/<1	<1/<1	3/3	<1/<1	<1/<1	-
	08/23/89	4	<1	<1	81	5	<1	<1	4	<1	<1	-
	11/20/91	-	-	-	87	-	-	-	-	-	-	-
	06/16/92	10	<5	<5	120	<10	<5	<5	<5	<5	<5	13
	*09/21/92	9/9	<1/<1	<1/<1	120/110	<5/<5	<1/<1	<1/<1	4/4	<1/<1	<1/<1	<5/<5
	12/8/92	8	<1	<1	110	<5	<1	<1	5	<1	<1	<5
	03/16/93	9	<2	<2	130	<5	<2	<2	6	<2	<2	<10
	06/07/93	13	<2	<2	120	<20	<2	<2	4	<2	<2	<40
	08/25/93	<4	<2	<2	120	<20	<2	<2	<2	<2	<2	<40
	11/19/93	9	<2	<2	82	<20	<2	<2	2	<2	<2	<40
	2/23/94	10	<2	<2	110	<20	<2	<2	5	<2	<2	<40
	6/10/94	17	<2	<2	120	<20	<2	<2	4	<2	<2	<40
	9/8/94	17	<2	<2	130	<20	<2	<2	<2	<2	<2	<40
	*12/22/94	14/13	<2/<2	<2/<2	99/94	<20/<20	<2/<2	<2/<2	3.1/3.0	<2/<2	<2/<2	<40/<40
	*3/13/95	19/19	<2/<2	<2/<2	120/130	<20/<20	<2/<2	<2/<2	2.2/2.3	<2	<2	<40
	6/12/95	20	<2	<2	140	<20	<2	<2	2	<2	<2	
	9/6/95	27	<5	<5	160	<10	<5	<5	<5	<5	<5	<10
	12/16/95	23	<2	<2	135	nr	<2	<2	4	<2	<2	nr
	03/01/96	20	<5	<5	120	<10	<5	<5	<5	<5	<5	<10
	6/6/96	22	<5	<5	140	nr	<5	<5	<5	<5	<5	<10
	9/19/96	22	<2	<2	120	<20	<2	<2	2.5	<2	<2	<20

BOE-C6-0193026

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER, 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 944016.02

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	1,1-DCE	1,1,-DCA	1,1,1-TCA	TCE	MIBK	cis-1,2-DCE	trans-1,2-DCE	CHLOROFORM	BENZENE	TOLUENE	MEK
WCC-11S	11/15/91	10	-	-	80	-	-	-	-	-	-	-
	06/16/92	21	<5	<5	120	<10	<5	<5	<5	<5	<5	<10
	09/21/92	17	<1	<1	140	<5	2	<1	<1	<1	<1	<5
	12/08/92	13	<1	<1	83	<5	6	<1	<1	<1	<1	<5
	03/16/93	25	<2	<2	160	<5	4	<2	<2	<2	<2	<10
	06/07/93	16	<2	<2	110	<20	5	<2	<2	<2	<2	<40
	08/24/93	14	<2	<2	97	<20	4	<2	<2	<2	<2	<40
	*11/19/93	14/14	<2/<2	<2/<2	100/100	<20/<20	3/3	<2/<2	<2/<2	<2/<2	<2/<2	<40/<40
	2/23/94	16	<2	<2	100	<20	4	<2	<2	<2	<2	<40
	6/10/94	16	<2	<2	85	<20	5	<2	<2	<2	<2	<40
	*9/8/94	20/19	<2/<2	<2/<2	140/120	<20/<20	4.8/5.9	<2/<2	<2/<2	<2/<2	<2/<2	<40/<40
	12/21/94	26	<2	6	130	<20	4	<2	<2	<2	10	<40
	3/13/95	16	<2	<2	100	<20	6	<2	<2	<2	<2	<40
	6/12/95	22	<2	<2	130	<20	6	<2	<2	<2	<2	<40
	*9/6/95	31/30	<5/<5	<5/<5	190/200	<10/<10	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<10/<10
	12/15/95	34	<2	<2	210	nr	5	<2	<2	<2	<2	nr
	3/1/96	30	<5	<5	170	<10	<5	<5	<5	<5	<5	<10
	*6/6/96	28/29	<5/<5	<5/<5	170/170	nr/nr	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<10/<10
	9/19/96	22	<5	<5	150	<50	<5	<5	<5	<5	<5	<50

BOE-C6-0193027

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER, 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 944016.02

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	1,1-DCE	1,1,-DCA	1,1,1-TCA	TCE	MIBK	cis-1,2-DCE	trans-1,2-DCE	CHLOROFORM	BENZENE	TOLUENE	MEK
WCC-12S	11/18/91	300	-	17	900	-	-	-	-	-	-	-
	*06/16/92	250/260	<5/5	<5/<5	660/710	<10/<10	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<10/10
	09/22/92	130	7	1	500	<5	3	<1	3	<1	<1	<5
	12/08/92	160	<5	<5	550	<30	5	<5	<5	<5	<5	<30
	03/17/93	100	7	<2	410	<5	4	8	3	<2	<2	<10
	06/07/93	130	2	<2	370	<20	5	<2	<2	<2	<2	<40
	08/25/93	100	<4	<4	390	<40	<4	<4	<4	<4	9	<80
	11/19/93	45	9	<2	220	<20	<2	<2	<2	<2	<2	<40
	2/24/94	89/77	7.7/3.9	<2/<2	270/220	<20/<20	2.9/3.3	<2/<2	<2/<2	<2/<2	<2/<2	<40/<40
	6/13/94	84	15	<2	270	<20	3	<2	2	<2	<2	<40
	9/9/94	97	<2	<2	160	<20	<2	<2	<2	<2	<2	<40
	12/22/94	52	17	<2	190	<20	2	<2	<2	<2	<2	<40
	3/14/95	53	18	<2	230	<20	<2	<2	3	<2	<2	<40
	6/12/95	72	28	<2	330	<20	<2	<2	3	<2	<2	<40
	9/6/95	60	32	<5	300	<10	<5	<5	<5	<5	<5	<10
	12/15/95	44	10	<2	140	nr	3	<2	2	<2	<2	nr
	3/01/96	47	13	<5	150	<10	<5	<5	<5	<5	<5	<10
	6/7/96	37	12	<5	140	nr	<5	<5	<5	<5	<5	<10
	9/19/96	48	15	<2	150	<20	2.5	<2	2.2	<2	<2	<20

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TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER, 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 944016.02

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	1,1-DCE	1,1,-DCA	1,1,1-TCA	TCE	MIBK	cis-1,2-DCE	trans-1,2-DCE	CHLOROFORM	BENZENE	TOLUENE	MEK
DAC-P1	10/09/89	<200	<200	<200	17,000	<1,000	<200	<200	<200	<200	<200	<1,000
	6/17/92	<5	<5	<5	21,000	<10	13	<5	10	<5	<5	<10
	*06/23/92	4/4	<1/<1	<1/<1	28,000/28,000	<5/<5	71/70	1/2	54/51	5/5	<1/<1	<5/<5
	12/09/92	<300	<500	<500	29,000	<3,000	<500	<500	<500	<500	<500	<3,000
	03/18/93	21	<2	44	21,000	7	68	2	44	5	260	<10
	06/08/93	<200	<100	<100	28,000	<1,000	<100	<100	<100	<100	130	<2,000
	08/25/93	<400	<200	<200	27,000	<2,000	<200	<200	<200	<200	300	<4,000
	11/19/93	<40	<20	<20	24,000	<200	81	<20	52	<20	<20	<400
	2/24/94	<40	<20	<20	20,000	<200	89	<20	47	<20	<20	<400
	6/13/94	<40	<20	<20	20,000	<200	92	<20	46	<20	<20	<400
	9/9/94	<400	<200	<200	18,000	<2,000	<200	<200	<200	<200	<200	<4,000
	12/22/94	<400	<200	<200	11,000	<2,000	<200	<200	<200	<200	<200	<4,000
	3/14/95	<400	<200	<200	21,000	<2,000	<200	<200	<200	<200	<200	<4,000
	6/13/95	<400	<200	<200	18,000	<2000	<200	<200	<200	<200	<200	<4,000
	9/7/95	12	<5	<5	13,000	<10	89	<5	33	<5	53	<10
	12/16/95	120	2	38	20,000	nr	130	5	45	5	680	nr
	*3/04/96	100/100	<100/<100	<100/<100	15,000/16,000	<200/<200	100/100	<100/<100	<100/<100	<100/<100	260/250	<200/<200
	*6/7/96	190/180	<50/<25	<50/45	13,000/12,000	nr/nr	95/95	<50/<25	<50/29	<50/<25	490/490	<100/<50
	9/19/96	350	<250	<250	15,000	<2,500	<250	<250	<250	<250	740	<2,500

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TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER, 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 944016.02

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	1,1-DCE	1,1,-DCA	1,1,1-TCA	TCE	MIBK	cis-1,2-DCE	trans-1,2-DCE	CHLOROFORM	BENZENE	TOLUENE	MEK
WCC-1D	07/25/89	<1	<1	<1	2	<5	1	<1	<1	<1	1	-
	08/23/89	<1	<1	1	2	<5	<1	<1	<1	<1	<1	-
	11/15/91	90	-	8	40	-	-	-	-	-	20	-
	*06/15/92	1,500/1,300	<25/<25	63/64	230/210	<50/<65	<25/<25	<25/<25	<25/<25	<25/<25	<25/<25	<50/<50
	09/22/92	180	<1	8	44	<5	2	<1	<1	<1	<1	<5
	*12/07/92	160/150	<1/<1	8/160	41/6	<5/<5	2/<1	<1/<1	1/1	<1/<1	<1/3	<5/<5
	03/16/93	200	<2	19	23	<5	3	<2	<2	<2	<2	<10
	*06/08/93	500/480	<10/<4	14/17	71/72	<100/<40	<10/<4	<10/<4	<10/<4	<10/<4	<10/<4	<200/<80
	08/24/93	540	<2	16	67	<20	3	2	<2	<2	2	<40
	11/18/93	880	<2	16	110	<20	3	3	<2	<2	<2	<40
	2/23/94	140	<2	3	14	<20	<2	<2	<2	<2	<2	<40
	6/10/94	230	<2	4	24	<20	<2	<2	<2	<2	<2	<40
	9/8/94	210	<2	4	37	<20	<2	<2	<2	<2	<2	<40
	12/22/94	600	<2	10	71	<20	2	2	<2	<2	2	<40
	3/13/95	240	<4	<4	38	<40	<4	<4	<4	<4	<4	<80
	6/13/95	170	<2	<2	21	<20	2	<2	<2	<2	<2	<40
	9/3/95	150	<5	<5	29	<10	<5	<5	<5	<5	<5	<10
	12/16/95	12	<2	<2	23	nr	3	<2	<2	<2	<2	nr
	*2/29/96	<5/<5	<5/<5	<5/<5	<5/<5	<10/<10	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<10/<10
	6/6/96	<5	<5	<5	<5	nr	<5	<5	<5	<5	<5	<10
	*9/18/96	<1/<1	<1/<1	<1/<1	3.5/3.6	<10/<10	1.3/1.4	<1/<1	<1/<1	<1/<1	<1/<1	<10/<10

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TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER, 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 944016.02

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	1,1-DCE	1,1,-DCA	1,1,1-TCA	TCE	MIBK	cis-1,2-DCE	trans-1,2-DCE	CHLOROFORM	BENZENE	TOLUENE	MEK
WCC-3D	07/25/89	<1	<1	49	4	<5	11	<1	<1	<1	3	-
	08/23/89	<10	<10	32	<10	<50	<10	<10	<10	<10	<10	-
	11/14/91	20	-	60	-	-	-	-	-	-	-	-
	06/16/92	510	<5	880	23	<10	<5	<5	<5	<5	8	<10
	09/22/92	21	<1	27	2	<5	<1	<1	<1	<1	<1	<5
	12/07/92	120	<1	130	5	<5	<1	<1	1	<1	3	<5
	*03/16/93	950/1,000	6/6	2,000/2,000	50/47	<5/<5	2/2	9/9	<2/<2	<2/<2	6/6	<10/<10
	06/08/93	110	<2	110	6	<20	<2	<2	<2	<2	<2	<40
	08/24/93	120	<2	100	5	<20	<2	<2	<2	<2	3	<40
	*11/18/93	610/840	<2/<4	410/640	17/23	<20/<40	<2/4	4/4	<2/<4	<2/<4	6/8	<40/<80
	2/23/94	370/420	<4/<4	530/590	23/25	<40/<40	<4/<4	<4/<4	<4/<4	<4/<4	12/13	<80/<80
	6/13/94	720	<10	1,300	96	<100	<10	<10	<10	<10	<10	<200
	9/9/94	3,700	<50	5,600	490	<500	<50	<50	<50	<50	<50	<1,000
	12/21/94	5,200	10	6,300	540	<40	15	22	<4	9	5,100	<80
	*3/14/95	3,300/3,200	<40/<20	4,000/3,900	370/380	<400/<200	<40/<20	<40/<20	<40/<20	<40/<20	3,200/3,400	<800/<400
	6/13/95	1,800	<10	2,100	200	<100	<10	<10	<10	<10	1,700	<200
	9/7/95	3,400	13	4,100	520	170	60	30	<5	13	4,700	<10
	12/16/95	111	<2	90	32	nr	3	<2	<2	<2	88	nr
	3/04/96	53	<5	40	23	<10	<5	<5	<5	<5	6	<10
	6/7/96	84	<5	59	60	nr	<5	<5	<5	<5	21	<10
	9/19/96	52	<1	24	61	<10	2.2	<1	<1	<1	12	<10

Notes:
ug/l = micrograms per liter
1,1-DCE = Dichloroethene
1,1-DCA = Dichloroethane
1,1,1-TCA = 1,1,1-Trichloroethane
TCE = Trichloroethene
MIBK = Methyl isobutyl ketone
cis-1,2,-DCE = cis-1,2-Dichloroethene
trans-1,2-DCE = trans-1,2-Dichloroethene
MEK = Methyl ethyl ketone

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TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER, 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 944016.02

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	Acetone	Total Xylenes	Trichloro-fluoromethane	Methylene Chloride	Carbon Tetra-Chloride	1,1,2-TCA	PCE	Carbon Disulfide	Ethyl-Benzene	1,2-DCA	1-Methylethyl benzene
WCC-1S	03/27/87	-	-	-	-	-	-	-	-	-	-	-
	*04/13/87	-	-	-	-	-	-	-	-	-	-	-
	11/12/87	-	-	-	-	-	-	-	-	-	-	-
	07/13/89	-	-	-	-	-	-	-	-	-	-	-
	08/23/89	-	-	-	-	-	-	-	-	-	-	-
	11/18/91	-	-	-	-	-	-	-	-	-	-	-
	06/17/92	<300	-	-	-	-	-	-	-	-	-	-
	09/23/92	<5	<1	<1	4	<1	<1	<1	22	<1	<1	<1
	12/09/92	<100	<30	<30	40	<30	<30	<30	<30	<30	<30	<30
	03/18/93	<10	<2	<5	<10	<5	<2	<2	<5	<2	<2	<2
	06/08/93	<400	<20	<20	<100	<20	<20	<20	<20	<20	<20	<20
	08/25/93	<400	<20	<20	<40	<20	<40	<20	<20	<20	<20	<20
	11/19/93	<400	<20	<20	<100	<20	<40	<20	<20	<20	<20	<20
	2/24/94	<400	<20	<20	<100	<20	<40	<20	<20	<20	<20	<20
	6/13/94	<200	<30	<10	<50	<10	<20	<10	<10	<10	<10	<10
	9/9/94	<800	<120	<40	<200	<40	<80	<40	<40	<40	<40	<40
	12/22/94	<400	<40	<20	<100	<20	<40	<20	<20	<20	<20	<20
	3/14/95	<400	<40	<20	<100	<20	<40	<20	<20	<20	<20	<20
	6/13/95	<400	<20	<20	<100	<20	<40	<20	<20	<20	<20	<20
	9/7/95	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	12/15/95*	<2/<2	<4/<4	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2
	3/04/96	<40	<40	<20	<20	<20	<20	<20	<20	<20	<20	<20
	6/7/96	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	9/19/96	<500	<50	<50	<50	<50	<50	<50	<250	<50	<50	<50

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TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER, 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 944016.02

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	Acetone	Total Xylenes	Trichloro-fluoromethane	Methylene Chloride	Carbon Tetra-Chloride	1,1,2-TCA	PCE	Carbon Disulfide	Ethyl-Benzene	1,2-DCA	1-Methylethyl benzene
WCC-2S	11/02/87	-	-	-	-	-	-	-	-	-	-	-
	11/12/87	-	-	-	-	-	-	-	-	-	-	-
	7/13/89	-	-	-	-	-	-	-	-	-	-	-
	8/23/89	-	-	-	-	-	-	-	-	-	-	-
	11/19/91	-	-	-	-	-	-	-	-	-	-	-
	06/16/92	<10	-	-	-	-	-	-	-	-	-	-
	*09/22/92	<5/<5	<1/<1	<1/1	11/9	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1
	*12/08/92	6/<5	<1/<1	<1/<1	5/2	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1
	*03/17/93	<10/<10	<2/<2	<5/<5	<10/<10	<5/<5	<2/<2	<2/<2	<5/<5	<2/<2	<2/<2	<2/<2
	06/07/93	<40	<2	<2	<4	<2	<4	<2	<2	<2	<2	<2
	08/24/93	<40	<2	<2	<4	<2	<4	<2	<2	<2	<2	<2
	11/19/93	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2	<2
	2/24/94	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2	<2
	6/10/94	<40	<6	<2	<20	<2	<4	<2	<2	<2	<2	<2
	9/8/94	<40	<6	<2	<10	<2	<4	<2	<2	<2	<2	<2
	12/22/94	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2	<2
	3/13/95	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2	<2
	6/12/95	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2	<2
	9/6/95	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	12/15/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2	<2
	3/01/96	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5
	6/6/96	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	9/19/96	<10	<1	<1	<1	<1	<1	<1	<5	<1	<1	1.1

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TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER, 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 944016.02

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	Acetone	Total Xylenes	Trichloro-fluoromethane	Methylene Chloride	Carbon Tetra-Chloride	1,1,2-TCA	PCE	Carbon Disulfide	Ethyl-Benzene	1,2-DCA	1-Methylethyl benzene
WCC-3S	11/02/87	-	-	-	-	-	-	-	-	-	-	-
	11/12/87	-	-	-	-	-	-	-	-	-	-	-
	7/13/89	-	-	-	-	-	-	-	-	-	-	-
	08/23/89	-	-	-	-	-	-	-	-	-	-	-
	11/14/91	-	-	-	-	-	-	-	-	-	-	-
	06/17/92	<30,000	-	-	-	-	-	-	-	-	-	-
	09/23/92	<3,000	<500	<500	900	<500	<500	<500	<500	<500	<500	<500
	12/09/92	<3,000	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500
	*03/18/93	<50/<50	120/110	<25/<25	<50/<50	<25/<25	55/60	<10/<10	<25/<25	<10/<10	100/95	<10/<10
	06/08/93	<2,000	<100	<100	<200	<100	<200	<100	<100	<100	<100	*<100
	*08/25/93	<8,000/<200	<400/154	<400/<10	<800/<50	<400/<10	<800/52	<400/<10	<400/<10	<400/21	<400/86	<400/<10
	11/19/93	<4,000	<200	<200	<1,000	<200	<200	<200	<200	<200	<200	<200
	2/24/94	<4,000	<200	<200	<1,000	<200	<400	<200	<200	<200	<200	<200
	6/13/94	<4000	<600	<200	<1000	<200	<400	<200	<200	<200	<200	<200
	*9/9/94	<10000/<10000	<1,500/1,500	<500/<500	<2,500/<2,500	<500/<500	<1000/<1000	<500/<500	<500/<500	<500/<500	<500/<500	<500/<500
	12/22/94	<4,000	<400	<200	<1,000	<200	<400	<200	<200	<200	<200	<200
	3/14/95	<4,000	<400	<200	<1,000	<200	<400	<200	<200	<200	<200	<200
	6/13/95	<8,000	<400	<400	<2,000	<400	<800	<400	<400	<400	<400	<400
	9/7/95	39	137	<5	23	<5	64	<5	<5	18	99	<5
	12/16/95	<2	42	<2	<2	<2	22	<2	<2	8	41	<2
	3/04/96	<100	<100	<50	<50	<50	<50	<50	<50	<50	<50	<50
	3/4/96	19	37	<5	13	<5	12	<5	<5	7	41	<5
	9/19/96	<5,000	<500	<500	<500	<500	<500	<500	<2,500	<500	<500	<500

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TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER, 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 944016.02

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	Acetone	Total Xylenes	Trichloro-fluoromethane	Methylene Chloride	Carbon Tetra-Chloride	1,1,2-TCA	PCE	Carbon Disulfide	Ethyl-Benzene	1,2-DCA	1-Methylethyl benzene
WCC-4S	11/02/87	-	-	-	-	-	-	-	-	-	-	-
	11/12/87	-	-	-	-	-	-	-	-	-	-	-
	7/13/89	-	-	-	-	-	-	-	-	-	-	-
	08/23/89	-	-	-	-	-	-	-	-	-	-	-
	11/18/91	-	-	-	-	-	-	-	-	-	-	-
	06/17/92	<150	-	-	-	-	-	-	-	-	-	-
	09/23/92	<50	<10	<10	20	<10	<10	<10	<10	<10	<10	<10
	12/08/92	<50	<10	<10	50	<10	<10	<10	<10	<10	<10	<10
	03/17/93	<10	<2	<5	<10	<5	<2	<2	<5	<2	<2	<2
	06/08/93	<200	<10	<10	<40	<10	<20	<10	<10	<10	<10	<10
	08/25/93	<200	<10	<10	<20	<10	<20	<10	<10	<10	<10	<10
	11/19/93	<80	<4	<4	<20	<4	<8	<4	<4	<4	<4	<4
	2/24/94	<80	<4	<4	<20	<4	<8	<4	<4	<4	<4	<4
	6/14/94	<80	<12	<4	<20	<4	<8	<4	<4	<4	<4	<4
	9/9/94	<400	<60	<20	<100	<20	<40	<20	<20	<20	<20	<20
	12/22/94	<200	<20	<10	<50	<10	<20	<10	<10	<10	<10	<10
	3/14/95	<80	<8	<4	<20	<4	<8	<4	<4	<4	<4	<4
	6/13/95	<130	<6.6	<6.6	<33	<6.6	<13	<6.6	<6.6	<6.6	<6.6	<6.6
	9/7/95	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	12/15/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2	<2
	3/04/96	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5
	6/7/96	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	9/19/96	<250	<25	<25	<25	<25	<25	<25	<120	<25	<25	<25

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TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER, 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 944016.02

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	Acetone	Total Xylenes	Trichloro-fluoromethane	Methylene Chloride	Carbon Tetra-Chloride	1,1,2-TCA	PCE	Carbon Disulfide	Ethyl-Benzene	1,2-DCA	1-Methylethyl benzene
WCC-5S	11/30/87	-	-	-	-	-	-	-	-	-	-	-
	01/08/88	-	-	-	-	-	-	-	-	-	-	-
	*07/13/89	-	-	-	-	-	-	-	-	-	-	-
	08/23/89	-	-	-	-	-	-	-	-	-	-	-
	11/19/91	-	-	-	-	-	-	-	-	-	-	-
	06/15/92	<10	-	-	-	-	-	-	-	-	-	-
	09/21/92	<5	<1	3	8	<1	<1	<1	<1	<1	<1	<1
	12/07/92	<5	<1	<1	3	<1	<1	<1	<1	<1	<1	<1
	03/16/93	<10	<2	<5	<10	<5	<2	<2	<5	<2	<2	<2
	06/07/93	<40	<2	<2	<4	<2	<2	<4	<2	<2	<2	<2
	08/24/93	<40	<2	<2	<4	<2	<4	<2	<2	<2	<2	<2
	11/18/93	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2	<2
	2/23/94	<40	<2	<2	<10	<2	<4	<2	4	<2	<2	<2
	*6/10/94	<40/<40	<6/<6	<2/<2	<20/<20	<2/<2	<4/<4	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2
	9/8/94	<40	<6	<2	<10	<2	<4	<2	<2	<2	<2	<2
	12/21/94	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2	<2
	3/13/95	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2	<2
	6/12/95	<40	<2	<2	<10	<2	<4	<2	2	<2	<2	<2
	9/6/95	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	12/12/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2	<2
	2/29/96	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5
	6/6/96	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	9/18/96	<10	<1	<1	<1	<1	<1	<1	<5	<1	<1	1.2

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TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER, 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 944016.02

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	Acetone	Total Xylenes	Trichloro-fluoromethane	Methylene Chloride	Carbon Tetra-Chloride	1,1,2-TCA	PCE	Carbon Disulfide	Ethyl-Benzene	1,2-DCA	1-Methylethyl benzene
WCC-6S	10/06/89	-	-	-	-	-	-	-	-	-	-	-
	11/16/91	-	-	-	-	-	-	-	-	-	-	-
	06/17/92	<3,000	-	-	-	-	-	-	-	-	-	-
	09/23/92	78	26	<1	5	<1	96	<1	<1	5	5	<1
	*12/09/92	<300/<500	<50/<100	<50/<100	100/200	<50/<100	60/<100	<50/<10	<50/<100	<50/<10	<80/<10	<50/<100
	03/17/93	<50	20	<25	<50	<25	<10	<10	<25	<10	50	<25
	06/08/93	<2,000	<100	<100	<200	<100	<200	<100	<100	<100	<100	<100
	08/25/93	<2,000	<100	<100	<200	<100	<200	<100	<100	<100	<100	<100
	11/19/93	<200	<10	<10	<50	<10	<20	<10	<10	<10	37	<10
	2/24/94	230	58	<10	<50	<10	74	<10	<10	10	47	<10
	*6/13/94	<200/<2000	51/<300	<50/<100	<50/<500	<10/<100	69/<200	<10/<100	<10/<10	<10/<100	41/<100	<10/<10
	9/9/94	Not sampled; well head obstructed.										
	12/22/94	<4,000	<400	<200	<1,000	<200	<400	<200	<200	<200	<200	<200
	3/14/95	<400	<40	<20	<100	<20	<40	<20	<20	<20	26	<20
	6/13/95	<400	<20	<20	<100	<20	60	<20	<20	<20	51	<20
	*9/7/95	<10/<10	1	<5/<5	<5/<5	<5/<5	1	<5/<5	<5/<5	<5/<5	1	<5/<5
	12/16/95	<2	28	<2	<2	<2	76	<2	<2	5	41	<2
	3/04/96	<100	<100	<50	<50	<50	61	<50	<50	<50	<50	<50
	6/7/96	<50	<25	<25	<25	<25	53	<25	<25	<25	39	<25
	*9/19/96	<2,500/<1,000	<250/<100	<250/<100	<250/<100	<250/<100	<250/<100	<250/<100	<1,200/<500	<250/<100	<250/<100	<250/<100

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TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER, 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 944016.02

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	Acetone	Total Xylenes	Trichloro-fluoromethane	Methylene Chloride	Carbon Tetra-Chloride	1,1,2-TCA	PCE	Carbon Disulfide	Ethyl-Benzene	1,2-DCA	1-Methylethyl benzene
WCC-7S	07/13/89	-	-	-	-	-	-	-	-	-	-	-
	08/23/89	-	-	-	-	-	-	-	-	-	-	-
	11/18/91	-	-	-	-	-	-	-	-	-	-	-
	06/17/92	<30	-	-	-	-	-	-	-	-	-	-
	09/23/92	<30	<5	<5	10	<5	<5	<5	<5	<5	<5	<5
	12/08/92	<30	<5	<5	10	<5	<5	<5	<5	<5	<5	<5
	03/17/93	<10	<5	<5	<10	<5	<2	<2	<5	<2	<2	<2
	06/07/93	<40	<2	<2	<4	<2	<4	<2	<2	<2	<2	<2
	08/25/93	<80	<4	<4	31	<4	<8	<4	<4	<4	<4	<4
	11/19/93	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2	<2
	2/24/94	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2	<2
	6/13/94	<40	<6	<2	<10	<2	<4	<2	<2	<2	<2	<2
	9/8/94	<40	<6	<2	<10	<2	<4	<2	<2	<2	<2	<2
	12/22/94	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2	<2
	3/14/95	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2	<2
	*6/13/95	<40/<40	<2/<2	<2/<2	<10/<10	<2/<2	<4/<4	<2/<2	0	<2/<2	<2/<2	<2/<2
	9/7/95	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	12/15/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2	<2
	3/01/96	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5
	6/7/96	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	9/19/96	<20	<2	<2	<2	<2	<2	<2	<10	<2	<2	<2

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TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER, 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 944016.02

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	Acetone	Total Xylenes	Trichloro-fluoromethane	Methylene Chloride	Carbon Tetra-Chloride	1,1,2-TCA	PCE	Carbon Disulfide	Ethyl-Benzene	1,2-DCA	1-Methylethyl benzene
WCC-8S	07/13/89	-	-	-	-	-	-	-	-	-	-	-
	08/23/89	-	-	-	-	-	-	-	-	-	-	-
	11/15/91	-	-	-	-	-	-	-	-	-	-	-
	*06/17/92	<150/<300	-	-	-	-	-	-	-	-	-	-
	09/23/92	<100	<20	<20	40	<20	<20	<20	<20	<20	<20	<20
	12/08/92	<100	<20	<20	30	<20	<20	<20	<20	<20	<20	<20
	03/17/93	<10	<2	<5	<10	<5	<2	<2	<5	<2	<2	<2
	06/08/93	<400	<20	<20	<100	<20	<40	<20	<20	<20	<20	<20
	08/25/93	<400	<20	<20	<40	<20	<40	<20	<20	<20	<20	<20
	11/19/96	<400	<20	<20	<100	<20	<40	<20	<20	<20	<20	<20
	2/24/94	<400	<20	<20	<100	<20	<40	<20	<20	<20	<20	<20
	6/13/94	<800	<120	<40	<200	<40	<80	<40	<40	<40	<40	<40
	9/9/94	<1000	<150	<50	<250	<50	<100	<50	<50	<50	<50	<50
	12/22/94	<400	<40	<20	<100	<20	<40	<20	<20	<20	<20	<20
	3/14/95	<800	<80	<40	<200	<40	<80	<40	<40	<40	<40	<40
	6/13/95	<800	<40	<40	<200	<40	<80	<40	<40	<40	<40	<40
	9/7/95	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	12/15/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2	<2
	*3/01/96	<40/<40	<40/<40	<20/<20	<20/<20	<20/<20	<20/<20	<20/<20	<20/<20	<20/<20	<20/<20	<20/<20
	6/7/96	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	9/19/96	<500	<50	<50	<50	<50	<50	<50	<250	<50	<50	<50

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TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER, 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 944016.02

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	Acetone	Total Xylenes	Trichloro-fluoromethane	Methylene Chloride	Carbon Tetra-Chloride	1,1,2-TCA	PCE	Carbon Disulfide	Ethyl-Benzene	1,2-DCA	1-Methylethyl benzene
WCC-9S	10/06/89	-	-	-	-	-	-	-	-	-	-	-
	11/19/91	-	-	-	-	-	-	-	-	-	-	-
	06/15/92	<30	-	-	-	-	-	-	-	-	-	-
	09/21/92	<5	<1	<1	10	<1	<1	<1	<1	<1	<1	<1
	12/07/92	<5	<1	<1	3	<1	<1	<1	<1	<1	<1	<1
	03/16/93	<10	<2	<5	<10	<5	<2	<2	<5	<2	<2	<2
	*06/07/93	<40/<40	<2/<2	<2/<2	<4/<4	<2/<2	<4/<4	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2
	08/24/93	<40	<2	<2	<4	<2	<4	<2	<2	<2	<2	<2
	11/18/93	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2	<2
	2/23/94	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2	<2
	6/10/94	<40	<6	<2	<20	<2	<4	<2	<2	<2	<2	<2
	9/8/94	<40	<6	<2	<10	<2	<4	<2	<2	<2	<2	<2
	*12/21/94	<40/<40	<4/<4	<2/<2	<10/<10	<2/<2	<4/<4	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2
	3/13/95	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2	<2
	*6/12/95	<40/<40	<2/<2	<2/<2	<10/<10	<2/<2	<4/<4	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2
	9/6/95	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	12/12/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2	<2
	2/29/96	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5
	6/6/96	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	9/18/96	<10	<1	<1	<1	<1	<1	<1	<5	<1	<1	1.1

BOE-C6-0193040

TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER, 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 944016.02

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	Acetone	Total Xylenes	Trichloro-fluoromethane	Methylene Chloride	Carbon Tetra-Chloride	1,1,2-TCA	PCE	Carbon Disulfide	Ethyl-Benzene	1,2-DCA	1-Methylethyl benzene
WCC-10S	*07/13/89	-	-	-	-	-	-	-	-	-	-	-
	08/23/89	-	-	-	-	-	-	-	-	-	-	-
	11/20/91	-	-	-	-	-	-	-	-	-	-	-
	06/16/92	35	-	-	-	-	-	-	-	-	-	-
	*09/21/92	<5/<5	<1/<1	<1/<1	8/8	1/1	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1
	12/8/92	<5	<1	<1	3	<1	<1	<1	<1	<1	<1	<1
	03/16/93	<10	<2	<5	<10	<5	<2	<2	<5	<2	<2	<2
	06/07/93	<40	<2	<2	<4	<2	<4	<2	<2	<2	<2	<2
	08/25/93	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2	<2
	11/19/93	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2	<2
	2/23/94	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2	<2
	6/10/94	<40	<6	<2	<20	<2	<4	<2	<2	<2	<2	<2
	9/8/94	<40	<6	<2	<10	<2	<4	<2	<2	<2	<2	<2
	*12/22/94	<40/<40	<4/<4	<2/<2	<10/<10	<2/<2	<4/<4	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2
	*3/13/95	<40/<40	<4/<4	<2/<2	<10/<10	<2/<2	<4/<4	2.4/<2	<2/<2	<2/<2	<2/<2	<2/<2
	6/12/95	<40	<2	<2	<10	<2	<4	<2	17	<2	<2	<2
	9/6/95	<10	<5	<5	<5	<5	<5	<5	14	<5	<5	<5
	12/16/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2	<2
	03/01/96	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5
	6/6/96	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	9/19/96	<20	<2	<2	<2	<2	<2	<2	<10	<2	<2	<2

BOE-C6-0193041

TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER, 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 944016.02

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	Acetone	Total Xylenes	Trichloro-fluoromethane	Methylene Chloride	Carbon Tetra-Chloride	1,1,2-TCA	PCE	Carbon Disulfide	Ethyl-Benzene	1,2-DCA	1-Methylethyl benzene
WCC-11S	11/15/91	-	-	-	-	-	-	-	-	-	-	-
	06/16/92	<10	-	-	-	-	-	-	-	-	-	-
	09/21/92	<5	<1	2	9	<1	<1	<1	<1	<1	<1	<1
	12/08/92	<5	<1	<1	4	<1	<1	<1	<1	<1	<1	<1
	03/16/93	<10	<2	<5	<10	<5	<2	<2	<5	<2	<2	<2
	06/07/93	<40	<2	<2	<4	<2	<4	<2	<2	<2	<2	<2
	08/24/93	<40	<2	<2	<4	<2	<4	<2	<2	<2	<2	<2
	*11/19/93	<40/<40	<2/<2	<2/<4	<10/<10	<2/<2	<4/<4	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2
	2/23/94	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2	<2
	6/10/94	<40	<6	<2	<20	<2	<4	<2	<2	<2	<2	<2
	*9/8/94	<40/<40	<6/<6	<2/<2	<10/<10	<2/<2	<4/<4	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2
	12/21/94	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2	<2
	3/13/95	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2	<2
	6/12/95	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2	<2
	*9/6/95	<10/<10	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5
	12/15/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2	<2
	3/1/96	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5
	*6/6/96	<10/<10	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5
	9/19/96	<50	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5

BOE-C6-0193042

TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER, 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 944016.02

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	Acetone	Total Xylenes	Trichloro-fluoromethane	Methylene Chloride	Carbon Tetra-Chloride	1,1,2-TCA	PCE	Carbon Disulfide	Ethyl-Benzene	1,2-DCA	1-Methylethyl benzene
WCC-12S	11/18/91	-	-	-	-	-	-	-	-	-	-	-
	*06/16/92	<10/<10	-	-	-	-	-	-	-	-	-	-
	09/22/92	<5	<1	4	7	<1	<1	<1	<1	<1	<1	<1
	12/08/92	<30	<5	<5	20	<5	<5	<5	<5	<5	<5	<5
	03/17/93	<10	<2	<5	<10	<5	<2	<2	<5	<2	<2	<2
	06/07/93	<40	<2	<2	<4	<2	<4	<2	<2	<2	<2	<2
	08/25/93	<80	<4	<4	<8	<4	<8	<4	<4	<4	<4	<4
	11/19/93	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2	<2
	2/24/94	<40/<40	<2/<2	<2<2	<10/<10	<2/<2	<4/<4	<2/<2	<2/<2	<2/<2	<2/<2	<2/<2
	6/13/94	<40	<6	<2	<10	<2	<4	<2	<2	<2	<2	<2
	9/9/94	<40	<6	<2	<10	<2	<4	<2	<2	<2	<2	<2
	12/22/94	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2	<2
	3/14/95	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2	<2
	6/12/95	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2	<2
	9/6/95	<10	<5	<5	<5	<5	<5	<5	33	<5	<5	<5
	12/15/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2	<2
	3/01/96	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5
	6/7/96	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	9/19/96	<20	<2	<2	<2	<2	<2	<2	<10	<2	<2	<2

BOE-C6-0193043

TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER, 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 944016.02

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	Acetone	Total Xylenes	Trichloro-fluoromethane	Methylene Chloride	Carbon Tetra-Chloride	1,1,2-TCA	PCE	Carbon Disulfide	Ethyl-Benzene	1,2-DCA	1-Methylethyl benzene
DAC-P1	10/09/89	<1,000	-	-	-	-	-	-	-	-	-	-
	6/17/92	<30	-	-	-	-	-	-	-	-	-	-
	*06/23/92	<5/<5	<1/<1	1/1	4/4	4/4	9/9	13/13	<1/<1	<1/<1	<1/<1	<1/<1
	12/09/92	<3,000	<500	<500	2,000	<500	<500	<500	<500	<500	<500	<500
	03/18/93	<10	<2	<5	<10	<5	5	10	<5	<2	<2	<2
	06/08/93	<2,000	<100	<100	<200	<100	<200	<100	<100	<100	<100	<100
	08/25/93	<4,000	<200	<200	<400	<200	<400	<200	<200	<200	<200	<200
	11/19/93	<400	<20	<20	<100	<20	<40	<20	<20	<20	<20	<20
	2/24/94	<400	<20	<20	<100	<20	<40	<20	<20	<20	<20	<20
	6/13/94	<400	<60	<20	<100	<20	<40	<20	<20	<20	<20	<20
	9/9/94	<4000	<600	<200	<1000	<200	<400	<200	<200	<200	<200	<200
	12/22/94	<4,000	<400	<200	<1,000	<200	<400	<200	<200	<200	<200	<200
	3/14/95	<4,000	<400	<200	<1,000	<200	<400	<200	<200	<200	<200	<200
	6/13/95	<4,000	<200	<200	<1,000	<200	<400	<200	<200	<200	<200	<200
	9/7/95	<10	<5	<5	<5	<5	<5	17	<5	<5	<5	<5
	12/16/95	<2	<4	<2	<2	<2	4	11	<2	<2	<2	<2
	*3/04/96	<200/<200	<200/<200	<100/<100	<100/<100	<100/<100	<100/<100	<100/<100	<100/<100	<100/<100	<100/<100	<100/<100
	*6/7/96	<100/<50	<50/<25	<50/<25	<50/<25	<50/<25	<50/<25	<50/<25	<50/<25	<50/<25	<50/<25	<50/<25
	9/19/96	<2500	<250	<250	<250	<250	<250	<250	<1,200	<250	<250	<250

BOE-C6-0193044

TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER, 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 944016.02

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	Acetone	Total Xylenes	Trichloro-fluoromethane	Methylene Chloride	Carbon Tetra-Chloride	1,1,2-TCA	PCE	Carbon Disulfide	Ethyl-Benzene	1,2-DCA	1-Methylethyl benzene
WCC-1D	07/25/89	-	-	-	-	-	-	-	-	-	-	-
	08/23/89	-	-	-	-	-	-	-	-	-	-	-
	11/15/91	-	-	-	-	-	-	-	-	-	-	-
	*06/15/92	<50/<50	-	-	-	-	-	-	-	-	-	-
	09/22/92	<5	<1	4	11	<1	<1	<1	<1	<1	<1	<1
	*12/07/92	<5/<5	<1/<1	<1/<1	2/2	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1
	03/16/93	<10	<2	<5	<10	<5	<2	<2	<5	<2	<2	<2
	*06/08/93	<200/<80	<10/<4	<10/<4	<20/<10	<10/<4	<20/<8	<10/<4	<10/<4	<10/<4	<10/<4	<10/<4
	08/24/93	<40	<2	<2	<4	<2	<4	<2	<2	<2	<2	<2
	11/18/93	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2	<2
	2/23/94	<40	<2	<2	<10	<2	<4	<2	<2	<2	<2	<2
	6/10/94	<40	<6	<2	<20	<2	<4	<2	<2	<2	<2	<2
	9/8/94	<40	<6	<2	<10	<2	<4	<2	<2	<2	<2	<2
	12/22/94	<40	<4	<2	<10	<2	<4	<2	<2	<2	<2	<2
	3/13/95	<80	<8	<4	<20	<4	<8	<4	<4	<4	<4	<4
	6/13/95	<40	<2	<2	<10	<2	<4	<2	3	<2	<2	<2
	9/3/95	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	12/16/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2	<2
	*2/29/96	<10/<10	<10/<10	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5	<5/<5
	6/6/96	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	*9/18/96	<10/<10	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1	<1/<1	<5/<5	<1/<1	<1/<1	<1/<1

BOE-C6-0193045

TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER, 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 944016.02

COMPOUNDS DETECTED BY EPA METHOD 8240 OR EPA METHOD 8240/8260 - All results in ug/l.

WELL I.D.	SAMPLE DATE	Acetone	Total Xylenes	Trichloro-fluoromethane	Methylene Chloride	Carbon Tetra-Chloride	1,1,2-TCA	PCE	Carbon Disulfide	Ethyl-Benzene	1,2-DCA	1-Methylethyl benzene
WCC-3D	07/25/89	-	-	-	-	-	-	-	-	-	-	-
	08/23/89	-	-	-	-	-	-	-	-	-	-	-
	11/14/91	-	-	-	-	-	-	-	-	-	-	-
	06/16/92	<30	-	-	-	-	-	-	-	-	-	-
	09/22/92	<5	<1	1	8	<1	<1	<1	<1	<1	<1	<1
	12/07/92	<5	<1	<1	1	<1	<1	<1	<1	<1	<1	<1
	*03/16/93	<10/<10	<2/<2	<5/<5	<10/<10	<5/<5	<2/<2	<2/<2	<5/<5	<2/<2	<2/<2	<2/<2
	06/08/93	<40	<2	<2	<4	<2	<4	<2	<2	<2	<2	<2
	08/24/93	<40	<2	<2	<4	<2	<4	<2	<2	<2	<2	<2
	*11/18/93	<40/<80	<2/<4	<2/<4	<10/<20	<2/<4	<4/<8	<2/<4	<2/<4	<2/<4	<2/<4	<2/<4
	2/23/94	<80	<4	<4	<20	<4	<8	<4	<4	<4	<4	<4
	6/13/94	<200	<30	<10	<50	<10	<20	<10	<10	<10	<10	<10
	9/9/94	<1000	<150	<50	<250	<50	<100	<50	<50	<50	<50	<50
	12/21/94	<80	<8	<4	<20	<4	29	<4	<4	<4	<4	<4
	*3/14/95	<800/<400	<80/<40	<40/<20	<200/<100	<40/<20	<80/<40	<40/61	<40/<20	<40/<20	<40/<20	<40/<20
	6/13/95	<200	<10	<10	<50	<10	<20	<10	<10	<10	<10	<10
	9/7/95	<10	8	<5	<5	<5	35	<5	<5	<5	6	<5
	12/16/95	<2	<4	<2	<2	<2	<2	<2	<2	<2	<2	<2
	3/04/96	<10	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5
	6/7/96	<10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
	9/19/96	<10	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1

Notes:
ug/l = micrograms per liter
PCE = Tetrachloroethene
1,1,2-TCA=1,1,2-Trichloroethane
1,2-DCA = 1,2-Dichloroethane

BOE-C6-0193046

TABLE 4

SUMMARY OF GROUNDWATER ELEVATION DATA
THIRD QUARTER, 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 944016.02

Observation Well	Reference Point[1] Elevation (Feet Above MSL)[2]	Water Level Elevation (Feet Above Mean Sea Level)									
		6/10/94	9/8/94	12/21/94	3/13/95	6/12/95	9/20/95	12/12/95	2/29/96	6/6/96	9/18/96
WCC-1S	50.7	-17.23	-17.25	-17.12	-17.12	-16.53	-16.27	-16.05	-15.80	-15.47	-15.36
WCC-2S	50.59	-17.07	-17.2	-17.17	-17.08	-16.37	-16.19	-15.86	-15.77	-15.26	-15.18
WCC-3S	51.19	-17.19	-17.31	-17.28	-17.22	-16.58	-16.37	-16.06	-15.93	-15.41	-15.41
WCC-4S	49.69	-17.32	-17.37	-17.31	-17.23	-16.61	-16.38	-16.16	-17.02	-15.56	-15.49
WCC-5S	48.22	-17.33	-17.33	-17.25	-17.19	-16.56	-16.35	-16.14	-16.02	-15.54	-15.47
WCC-6S	50.95	-17.48	NM[3]	-17.45	-17.36	16.75	-16.64[4]	-16.30	-16.17	-15.76	-15.65
WCC-7S	48.29	-17.82	-17.8	-17.74	-17.54	-17.03	-16.82	-16.59	-16.46	-16.01	-15.95
WCC-8S	50.56	-17.11	-17.14	-17.12	-17.29	-16.42	-16.16	-15.89	-15.76	-15.34	-15.27
WCC-9S	47.01	-18.63	-19.08	-17.51	-17.41	-16.79	-16.64	-16.39	-16.49	-15.86	-15.76
WCC-10S	51.12	-16.67	-17.03	-16.97	-16.56	-16.05	-15.89	-15.54	-15.22	-14.77	-14.68
WCC-11S	49.97	-16.45	-16.58	-16.63	-16.48	-15.83	-15.59	-15.35	-15.19	-14.71	-14.64
WCC-12S	46.92	-17.74	-17.79	-17.67	-17.63	-17.00	-16.79	-16.54	-16.40	-15.96	-15.88
DAC-P1	52.44	-16.6	-16.48	-16.25	-16.41	-15.94	-15.66	-15.66	-15.40	-15.02	-14.88
WCC-1D	50.45	-17.47	-17.66	-17.55	-17.36	-16.79	-16.60	-16.31	-16.15	-15.73	-15.65
WCC-3D	51.18	-17.39	-17.47	-17.42	-17.27	-16.67	-16.47	-16.17	-15.95	-15.57	-15.5
MW-8[5]	49.09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9[5]	48.67	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-18[5]	50.29	NA	NA	NA	NA	-18.91	NA	NA	NA	NA	NA
MW-19[5]	46.55	NA	NA	NA	NA	-18.06	NA	NA	NA	NA	NA

Notes:

1. Reference point is north side, top of well casing
2. Reference point elevation measured by Hargis + Associates, Inc.
3. Water Level Elevation not measured due to wellhead obstructions.
4. Well WCC-6S could not be opened on 20 September 1995. The water level elevation shown was measured on 6 September 1995.
5. Installed by Hargis + Associates, Inc. for Montrose Chemical Corporation
6. NA - Not Available

BOE-C6-0193047

TABLE 4

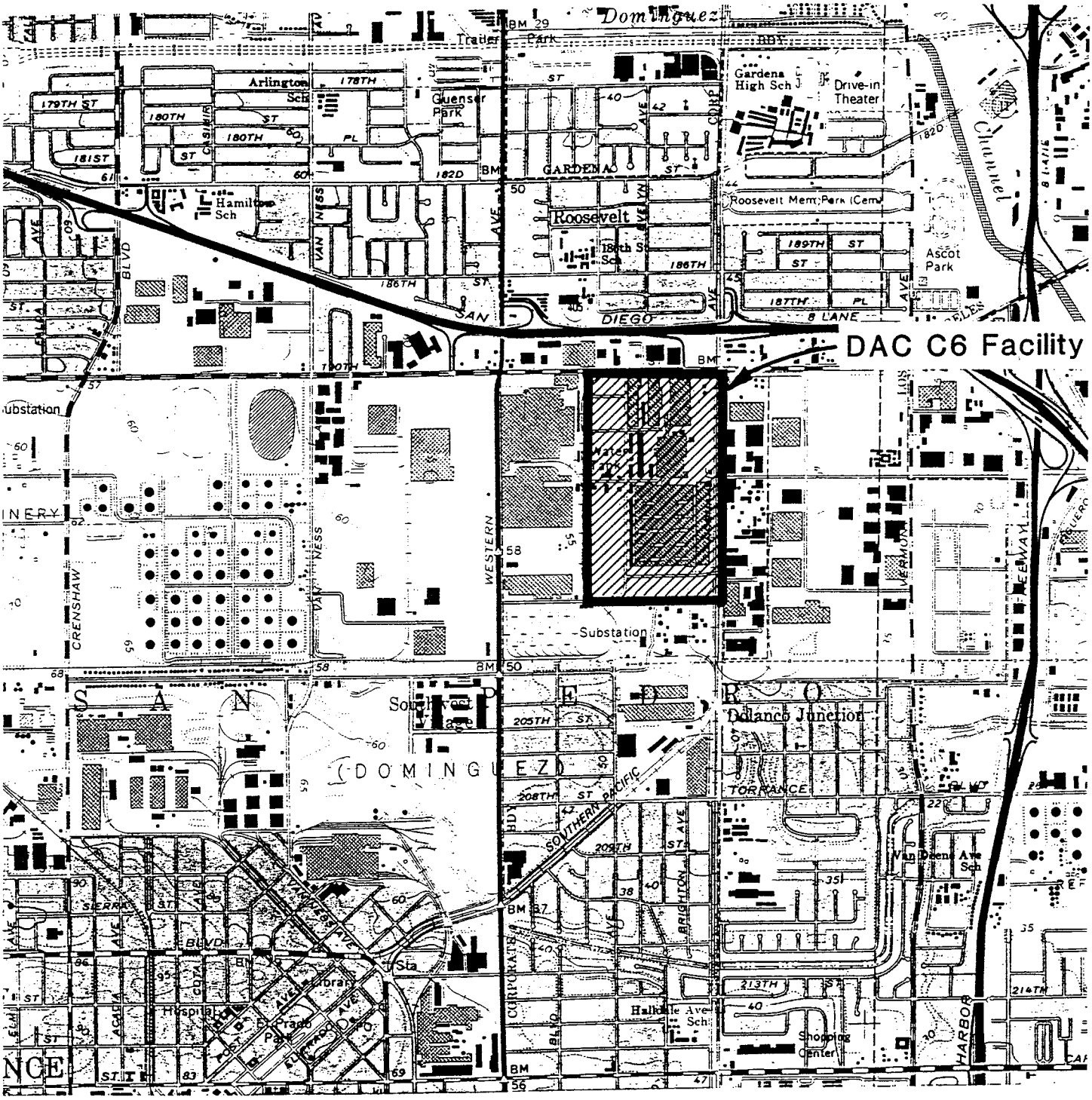
SUMMARY OF GROUNDWATER ELEVATION DATA
GROUNDWATER MONITORING DATA SUMMARY REPORT
THIRD QUARTER, 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 944016.02

Observation Well	Reference Point[1] Elevation (Feet Above MSL)[2]	Water Level Elevation (Feet Above Mean Sea Level)									
		11/13/87[3]	10/18/89[4]	6/15/92	9/21/92	1/5/93	4/9/93	6/7/93	8/24/93	11/18/93	2/23/94
WCC-1S	50.7	-21.63	-19.48	-19.2	-19.42	-19.34	-18.79	-18.75	-18.25	-18	-17.61
WCC-2S	50.59	-19.72	-19.06	-19.15	-19.41	-19.51	-18.64	-18.63	-18.15	-17.87	-17.49
WCC-3S	51.19	-21.56	-19.42	-19.24	-19.52	-19.73	-18.83	-18.82	-18.36	-18.01	-17.67
WCC-4S	49.69	-21.77	-19.59	-19.22	-19.49	-19.34	-18.86	-18.78	-18.37	-18.16	-17.77
WCC-5S	48.22	NA[5]	-19.7	-19.13	-19.42	-19.32	-18.83	-18.78	-18.38	-18.13	-17.78
WCC-6S	50.95	NA	-19.7	-19.4	-19.64	-19.5	-19.03	-18.97	-18.55	-18.32	-17.92
WCC-7S	48.29	NA	-20.07	-19.63	-19.93	-19.76	-19.3	-19.23	-18.83	-18.6	-18.22
WCC-8S	50.56	NA	-19.35	-19.11	-19.34	-19.19	-18.69	-18.61	-18.19	-17.89	-17.49
WCC-9S	47.01	NA	-20.07	-19.44	-19.66	-19.56	-19.09	-19.09	-18.69	-18.42	-18.09
WCC-10S	51.12	NA	-18.42	-18.94	-19.33	-19.1	-18.42	-18.33	-17.83	-17.54	-17.07
WCC-11S	49.97	NA	NA	-17.62	-18.81	-18.69	-18.13	-18.04	-17.6	-17.36	-16.96
WCC-12S	46.92	NA	NA	-19.6	-19.9	-19.74	-19.26	-19.2	-18.78	-18.58	-18.13
DAC-P1	52.44	NA	NA	-17.76	-17.88	-18.02	-17.46	-17.38	-17.03	-16.76	-16.74
WCC-1D	50.45	NA	-19.51	-19.55	-19.92	-19.61	-19.1	-19	-18.53	-18.34	-17.83
WCC-3D	51.18	NA	-19.38	-19.39	-19.71	-20.52	-18.87	-18.85	-18.4	-18.18	-18
MW-8[6]	49.09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA[6]
MW-9[6]	48.67	NA	NA	NA	NA	NA	NA	-20.58	NA	NA	NA
MW-18[6]	50.29	NA	NA	NA	NA	NA	NA	-20.88	NA	NA	NA
MW-19[6]	46.55	NA	NA	NA	NA	NA	NA	-20.13	NA	NA	NA

Notes:

1. Reference point is north side, top of well casing.
2. Reference point elevation measured by Hargis + Associates.
3. Data taken from Woodward-Clyde Consultants Phase II Report, May 1988.
4. Data talen from Woodward-Clyde Consultants Phase III Report, May 1990.
5. NA - Not Available
6. Installed by Hargis + Associates, Inc. for Montrose Chemical Corporation.

BOE-C6-0193048



N

0 1,000 2,000 FEET

Base Map: U.S.G.S. 7.5 Minute Topographic Map, Torrance, California Quadrangle, 1981.

Kennedy/Jenks Consultants

Douglas Aircraft Company
C6 Facility

Site Vicinity Map

October 1996
K/J 944016.02

Figure 1

BOE-C6-0193049

190 TH. ST.

DAC-P1
WCC-10S
MW-8
MW-18
MW-9
MW-19
WCC-9S
WCC-5S
WCC-2S
WCC-3D
WCC-3S
WCC-6S
WCC-12S
WCC-7S
WCC-4S
WCC-8S
WCC-1D
WCC-1S
WCC-11S

1 2 3 4 11 14 15 18 19 20 29 32 33 34 36 37 40 41 43 57 58 60 61 66 67

MW-10 Approx. 200 ft. east of DAC property line

N

0 200

Scale in Feet

NORMANDIE AVE.

LEGEND

WCC-1S Observation Well Location, Designation

NOTE: 1) Wells MW-8,-9,-10,-18, and -19 Installed by Montrose Chemical Corporation

Kennedy/Jenks Consultants

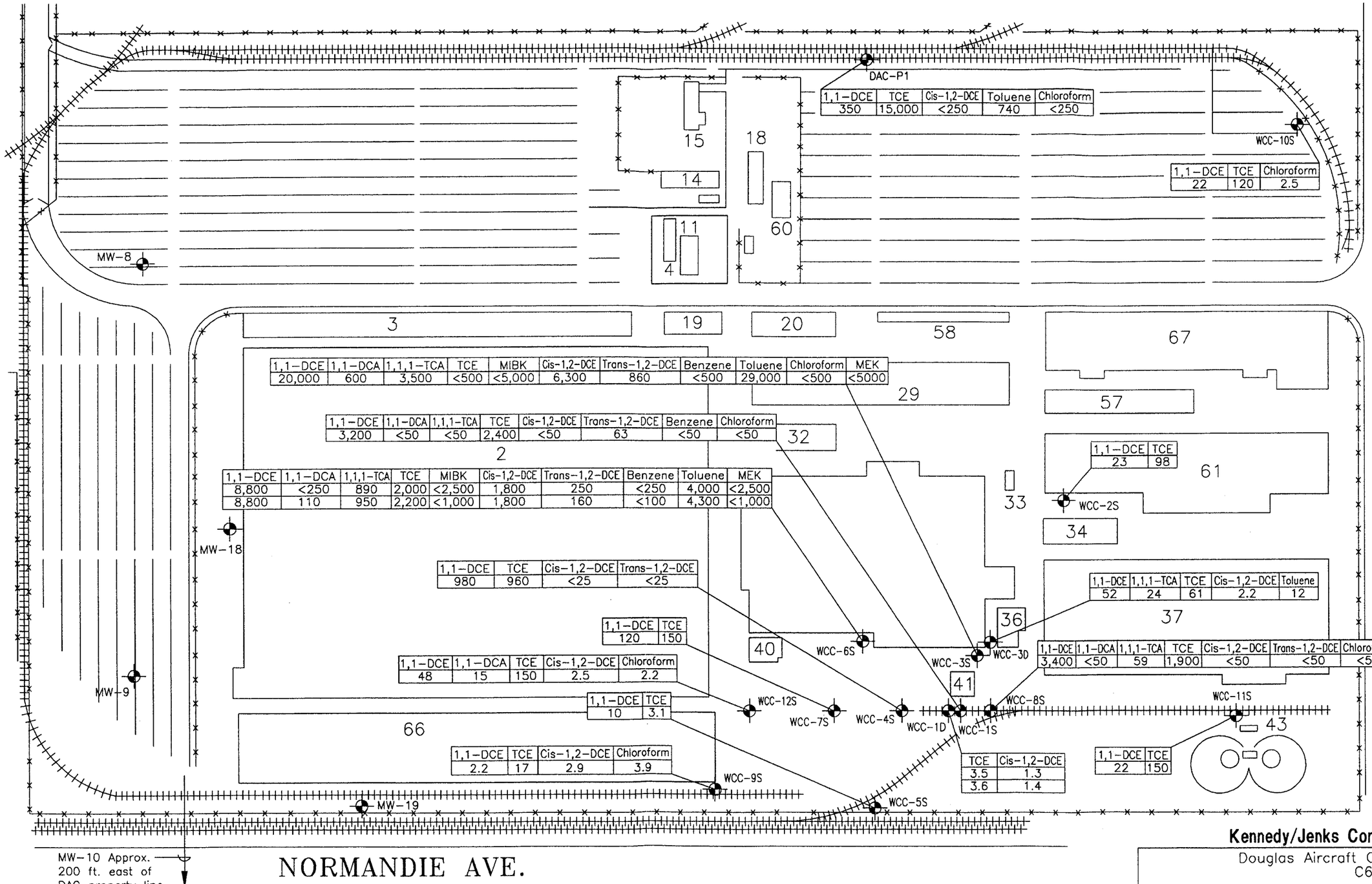
Douglas Aircraft Company
C6 Facility

Groundwater Observation Well Locations

October 1996
K/J 944016.02

Figure 2

BOE-C6-0193050



NOTES:

1. Samples Analyzed by EPA Method 8240/8260
2. All Results Reported in ug/l (ppb)
3. Wells MW-8,-9,-10,-18 and -19 Installed by Montrose Chemical Corporation and are not sampled by Douglas Aircraft Co.
4. Duplicate samples were analyzed for wells WCC-1D and WCC-6S.
5. <5=compound not detected at a quantitation limit of 5 ug/l. Nondetects posted only for VOCs detected in the well in the previous sample round. Figure shows only major constituents listed in Table 2.

Kennedy/Jenks Consultants

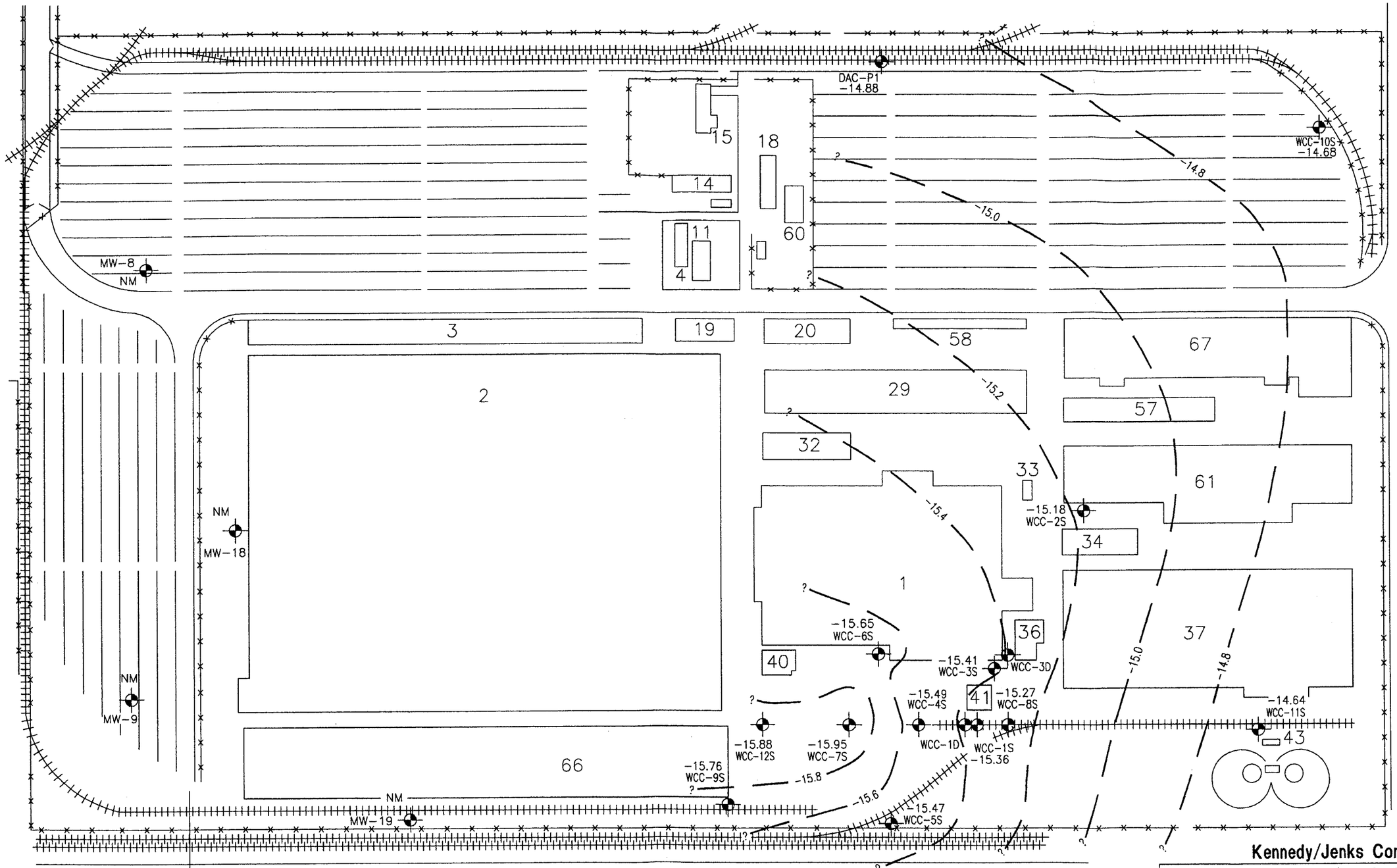
Douglas Aircraft Company
C6 Facility

Observation Well Detected Chemical Concentrations September 1996 Sampling Event

October 1996
K/J 944016.02

Figure 3

BOE-C6-0193051



N

0 200

Scale in Feet

LEGEND

WCC-1S -15.47 — Observation Well Location, Designation and groundwater elevation, feet MSL, measured 9/18/96.

-15.0 — Groundwater Elevation contours, dashed where inferred, queried where uncertain.

NM — Not Measured

NOTE: 1) Wells MW-8,-9,-10,-18, and -19 Installed by Montrose Chemical Corporation

2) Contour Interval = 0.2 feet

3) Wells WCC-3D and WCC-1D are screened across the deeper zone. Therefore, their water elevations are not included.

Kennedy/Jenks Consultants

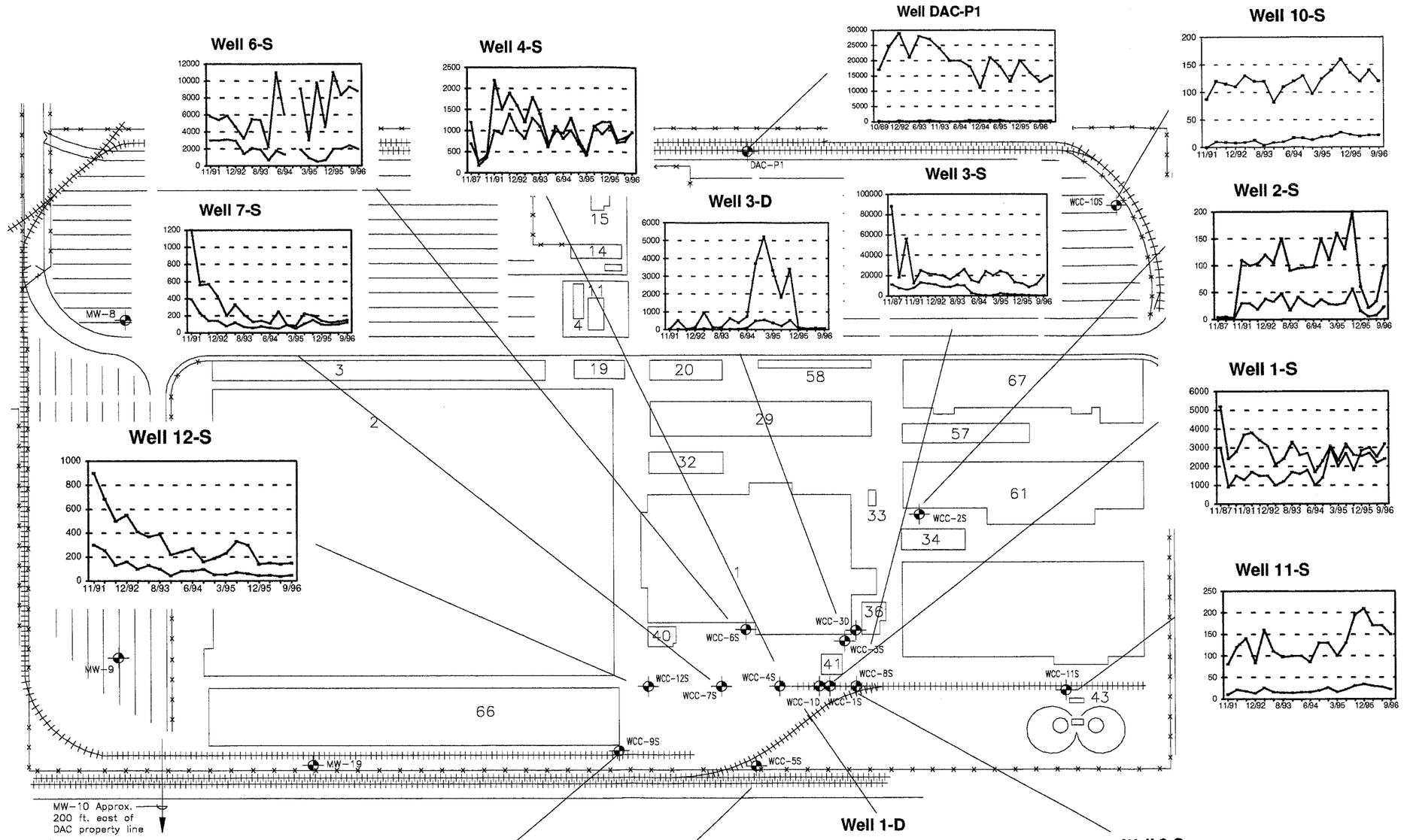
Douglas Aircraft Company
C6 Facility

Estimated Groundwater Elevation Contour Map, Shallow Zone, September 1996

October 1996
K/J 944016.02

Figure 4

BOE-C6-0193052



Douglas Aircraft Company
C-6 Facility
Torrance, California

Kennedy/Jenks Consultants
Irvine, California

Submitted:
Approved:

CHEMICAL CONCENTRATION PROFILES
November 1991 to September 1996

Scale AS NOTED
Job No. 944016.02
CADD File No.
Designed
Drawn
Checked
Date
Sheet 5

Rev'd | By | Date | Description

BOE-C6-0193053

APPENDIX A

LABORATORY DATA SHEETS

Quanterra Incorporated
1721 South Grand Avenue
Santa Ana, California 92705

714 258-8610 Telephone
714 258-0921 Fax

Quanterra
Environmental Services

October 3, 1996

KENNEDY/JENKS CONSULTANTS
2151 MICHELSON DRIVE, SUITE 100
IRVINE, CA 92715
ATTN: MR. JAY KNIGHT

LIMS NO.: 121378-0001/0005
DATE SAMPLED: 18-SEP-1996
DATE SAMPLE REC'D: 19-SEP-1996
PROJECT: DAC

Enclosed with this letter is the report containing the analytical results for the project specified above.

The Narrative section included in the following attachment provides a detailed description of all events that occurred during sample processing, analysis, and data review as applicable to the samples and analytical methods requested.

Report data sheets contain a list of the requested constituents measured in each test, the analytical results, and the standard reporting limits (RLs). Reporting limits are adjusted to reflect any dilution or dry weight correction, when applicable. Also provided in this report are the LIMS Report Key and the terms and abbreviations commonly used in our reports.

Preliminary data were provided on October 1, 1996 at 1:35 P.M. to Jay Knight.

The report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding the data provided in this report, please call Pat Abe at (714) 258-8610. Release of this report has been authorized by the Lab Director or the designee as demonstrated by the following signature.

Sincerely,

Project Manager

cc: Project File

LIMS REPORT KEY

Quanterra Environmental Services

Section	Description
Cover letter	Signature page, report narrative as applicable.
Sample Description Information	Tabulated cross-reference between the Lab ID and Client ID, including matrix, date and time sampled and the date received for all samples in the project.
Sample Analysis Results Sheets	Lists sample results, test components, reporting limits, dates prepared and analyzed and any data qualifiers. Pages are organized by test.
QC Lot Assignment Report	Cross-reference between lab IDs and applicable QC batches (DCS, LCS, SCS, Blank, MS/SD, DU)
Duplicate Control Sample Report	Percent recovery and RPD results, with acceptance limits, for the laboratory Duplicate Control Samples for each test are tabulated in this report. These are measures of accuracy and precision for each test.
Laboratory Control Sample Report	Percent recovery results for a single Laboratory Control Sample (if applicable) are tabulated in this report, with the applicable acceptance limits for each test.
Matrix Spike/Matrix Spike Duplicate Report	Percent recovery and RPD results for matrix-specific QC samples and acceptance limits, where applicable. This report can be used to assess matrix effects on an analysis.
Single Control Sample Report	A tabulation of the surrogate recoveries for the blank for organic analyses.
Method Blank Report	A summary of the results of the analysis of the method blank for each test.

List of Abbreviations and Terms

DCS	Duplicate Control Sample	MSD	Matrix Spike Duplicate
DU	Sample Duplicate	QC Run	Preparation batch
EB	Equipment Blank	QC Category	LIMS QC Category
FB	Field Blank	QC Lot	DCS batch
FD	Field Duplicate	ND	Not Detected at the reporting limit expressed
IDL	Instrument Detection Limit	QC Matrix	Matrix of the laboratory control sample (s)
LCS	Laboratory Control Sample	RL	Reporting Limit
MB	Method Blank	QC	Quality Control
MDL	Method Detection Limit	SA	Sample
MS	Matrix Spike	SD	See MSD
RPD	Relative Percent Difference	TB	Trip Blank
ppm (parts-per-million)	mg/L or mg/kg	ppb (parts-per-billion)	µg/L or µg/kg
QUAL	Qualifier flag	DIL	Dilution Factor

Refer to the Quanterra Incorporated Quality Assurance Management Plan for detailed explanations of terms summarized above.

Quanterra Environmental Services

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LIMS # 121378

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LIMS Report Key 2

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Chain-of-Custody Records and Sample Description Information

Analytical Results Summary (LIMS Report)

A. LIMS Datasheets
B. QC Summaries

Quanterra
Environmental Services

CASE NARRATIVE

LIMS # 121378

I. CONDITION UPON RECEIPT

The samples were not received in a cooler. The samples, however, were cold to the touch.

Sample containers were received intact. The VOA vials did not contain headspace. Sample container label did agree with the COC as to sample ID, collection time, and requested tests. The date of collection for all samples was verified with Jay Knight on September 23, 1996.

Samples were received in time to meet the method holding time specifications.

II. ORGANIC ANALYSES (BY METHOD: SW8260)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

SURROGATE RECOVERIES
All surrogate spike recoveries in samples and in QC samples met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

Chain of Custody Record

Quanterra Environmental Services

QUA-4124-1

Client	Project Manager	Date	Chain Of Custody Number
Kennedy / Jenks	Jay Knight	9/18/96	64206
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
2151 Mickelson Dr. Ste 100	714-261-1577	121378	

City	State	Zip Code	Site Contact	Lab Contact
Irvine	CA.	92715		

Project Name	Carrier/Waybill Number
DAC	

Contract/Purchase Order/Quote No.:

Analysis (Attach list if more space is needed): 8260B

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		8260B
WCC 5S-16	9/18/96	1636	X							X				X
WCC 9S-16	↓	1737	X							X				X
WCC 1D-16		1847	X							X				X
DW-091896		—	X							X				X
TB-091896		—	X							X				X
	9/23/96 ok per J. Knight													

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☒ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: [signature]	9-18-96	1830	1. Received By: [signature]	9-18-96	1830
2. Relinquished By: Jay Knight	9-19-96	1001	2. Received By: [signature]	9/19/96	1001
3. Relinquished By:			3. Received By:		

Comments:

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

BOE-C6-0193059

Quanterra
Environmental Services

SAMPLE DESCRIPTION INFORMATION
for
Kennedy/Jenks Consultants

Lab ID	Client ID	Matrix	Sampled Date	Sampled Time	Received Date
121378-0001-SA	WCC5S-16	WATER	18 SEP 96	16:36	19 SEP 96
121378-0002-SA	WCC9S-16	WATER	18 SEP 96	17:37	19 SEP 96
121378-0003-SA	WCC1D-16	WATER	18 SEP 96	18:47	19 SEP 96
121378-0004-SA	DW-091896	WATER-QA	18 SEP 96		19 SEP 96
121378-0005-SA	TB-091896	WATER-QA	18 SEP 96		19 SEP 96

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name:	Kennedy/Jenks Consultants		
Client ID:	WCC5S-16		
LAB ID:	121378-0001-SA		
Matrix:	WATER	Sampled: 18 SEP 96	Received: 19 SEP 96
Authorized:	19 SEP 96	Prepared: 24 SEP 96	Analyzed: 24 SEP 96
Instrument:	GC/MS-MD	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		1.0	ug/L
Chloromethane	ND		1.0	ug/L
Vinyl chloride	ND		1.0	ug/L
Bromomethane	ND		1.0	ug/L
Chloroethane	ND		1.0	ug/L
Trichlorofluoromethane	ND		1.0	ug/L
1,1-Dichloroethene	10		1.0	ug/L
Methylene chloride	ND		1.0	ug/L
trans-1,2-Dichloroethene	ND		1.0	ug/L
1,1-Dichloroethane	ND		1.0	ug/L
2,2-Dichloropropane	ND		1.0	ug/L
cis-1,2-Dichloroethene	ND		1.0	ug/L
Chloroform	ND		1.0	ug/L
Bromochloromethane	ND		1.0	ug/L
1,1,1-Trichloroethane	ND		1.0	ug/L
1,1-Dichloropropene	ND		1.0	ug/L
Carbon tetrachloride	ND		1.0	ug/L
1,2-Dichloroethane	ND		1.0	ug/L
Benzene	ND		1.0	ug/L
Trichloroethene	3.1		1.0	ug/L
1,2-Dichloropropane	ND		1.0	ug/L
Bromodichloromethane	ND		1.0	ug/L
Dibromomethane	ND		1.0	ug/L
Toluene	ND		1.0	ug/L
1,1,2-Trichloroethane	ND		1.0	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	ug/L
1,3-Dichloropropane	ND		1.0	ug/L
Tetrachloroethene	ND		1.0	ug/L
Dibromochloromethane	ND		1.0	ug/L
Chlorobenzene	ND		1.0	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L
Ethylbenzene	ND		1.0	ug/L
Xylenes (total)	ND		1.0	ug/L
Styrene	ND		1.0	ug/L
Bromoform	ND		1.0	ug/L
1-Methylethylbenzene	1.2		1.0	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L
1,2,3-Trichloropropane	ND		1.0	ug/L
n-Propyl benzene	ND		1.0	ug/L
Bromobenzene	ND		1.0	ug/L
1,3,5-Trimethylbenzene	ND		1.0	ug/L
2-Chlorotoluene	ND		1.0	ug/L
4-Chlorotoluene	ND		1.0	ug/L
tert-Butylbenzene	ND		1.0	ug/L
1,2,4-Trimethylbenzene	ND		1.0	ug/L

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name:	Kennedy/Jenks Consultants		
Client ID:	WCC5S-16		
LAB ID:	121378-0001-SA		
Matrix:	WATER	Sampled: 18 SEP 96	Received: 19 SEP 96
Authorized:	19 SEP 96	Prepared: 24 SEP 96	Analyzed: 24 SEP 96
Instrument:	GC/MS-MD	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
sec-Butylbenzene	ND		1.0	ug/L
Isopropyltoluene	ND		1.0	ug/L
1,3-Dichlorobenzene	ND		1.0	ug/L
1,4-Dichlorobenzene	ND		1.0	ug/L
n-Butylbenzene	ND		1.0	ug/L
1,2-Dichlorobenzene	ND		1.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	ug/L
1,2,4-Trichlorobenzene	ND		1.0	ug/L
Hexachlorobutadiene	ND		1.0	ug/L
Naphthalene	ND		1.0	ug/L
1,2,3-Trichlorobenzene	ND		1.0	ug/L
Acetone	ND		10	ug/L
2-Butanone	ND		10	ug/L
4-Methyl-2-pentanone	ND		10	ug/L
2-Hexanone	ND		10	ug/L
Carbon disulfide	ND		5.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	104	%	80 - 120
Toluene-d8	101	%	88 - 110
Bromofluorobenzene	97	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: WCC9S-16
LAB ID: 121378-0002-SA
Matrix: WATER Sampled: 18 SEP 96 Received: 19 SEP 96
Authorized: 19 SEP 96 Prepared: 25 SEP 96 Analyzed: 25 SEP 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		1.0	ug/L
Chloromethane	ND		1.0	ug/L
Vinyl chloride	ND		1.0	ug/L
Bromomethane	ND		1.0	ug/L
Chloroethane	ND		1.0	ug/L
Trichlorofluoromethane	ND		1.0	ug/L
1,1-Dichloroethene	2.2		1.0	ug/L
Methylene chloride	ND		1.0	ug/L
trans-1,2-Dichloroethene	ND		1.0	ug/L
1,1-Dichloroethane	ND		1.0	ug/L
2,2-Dichloropropane	ND		1.0	ug/L
cis-1,2-Dichloroethene	2.9		1.0	ug/L
Chloroform	3.9		1.0	ug/L
Bromochloromethane	ND		1.0	ug/L
1,1,1-Trichloroethane	ND		1.0	ug/L
1,1-Dichloropropene	ND		1.0	ug/L
Carbon tetrachloride	ND		1.0	ug/L
1,2-Dichloroethane	ND		1.0	ug/L
Benzene	ND		1.0	ug/L
Trichloroethene	17		1.0	ug/L
1,2-Dichloropropane	ND		1.0	ug/L
Bromodichloromethane	ND		1.0	ug/L
Dibromomethane	ND		1.0	ug/L
Toluene	ND		1.0	ug/L
1,1,2-Trichloroethane	ND		1.0	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	ug/L
1,3-Dichloropropane	ND		1.0	ug/L
Tetrachloroethene	ND		1.0	ug/L
Dibromochloromethane	ND		1.0	ug/L
Chlorobenzene	ND		1.0	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L
Ethylbenzene	ND		1.0	ug/L
Xylenes (total)	ND		1.0	ug/L
Styrene	ND		1.0	ug/L
Bromoform	ND		1.0	ug/L
1-Methylethylbenzene	1.1		1.0	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L
1,2,3-Trichloropropane	ND		1.0	ug/L
n-Propyl benzene	ND		1.0	ug/L
Bromobenzene	ND		1.0	ug/L
1,3,5-Trimethylbenzene	ND		1.0	ug/L
2-Chlorotoluene	ND		1.0	ug/L
4-Chlorotoluene	ND		1.0	ug/L
tert-Butylbenzene	ND		1.0	ug/L
1,2,4-Trimethylbenzene	ND		1.0	ug/L

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name:	Kennedy/Jenks Consultants		
Client ID:	WCC9S-16		
LAB ID:	121378-0002-SA		
Matrix:	WATER	Sampled: 18 SEP 96	Received: 19 SEP 96
Authorized:	19 SEP 96	Prepared: 25 SEP 96	Analyzed: 25 SEP 96
Instrument:	GC/MS-MD	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
sec-Butylbenzene	ND		1.0	ug/L
Isopropyltoluene	ND		1.0	ug/L
1,3-Dichlorobenzene	ND		1.0	ug/L
1,4-Dichlorobenzene	ND		1.0	ug/L
n-Butylbenzene	ND		1.0	ug/L
1,2-Dichlorobenzene	ND		1.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	ug/L
1,2,4-Trichlorobenzene	ND		1.0	ug/L
Hexachlorobutadiene	ND		1.0	ug/L
Naphthalene	ND		1.0	ug/L
1,2,3-Trichlorobenzene	ND		1.0	ug/L
Acetone	ND		10	ug/L
2-Butanone	ND		10	ug/L
4-Methyl-2-pentanone	ND		10	ug/L
2-Hexanone	ND		10	ug/L
Carbon disulfide	ND		5.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	97	%	80 - 120
Toluene-d8	96	%	88 - 110
Bromofluorobenzene	91	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: WCC1D-16
LAB ID: 121378-0003-SA
Matrix: WATER Sampled: 18 SEP 96 Received: 19 SEP 96
Authorized: 19 SEP 96 Prepared: 25 SEP 96 Analyzed: 25 SEP 96
Instrument: GC/MS-MD Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		1.0	ug/L
Chloromethane	ND		1.0	ug/L
Vinyl chloride	ND		1.0	ug/L
Bromomethane	ND		1.0	ug/L
Chloroethane	ND		1.0	ug/L
Trichlorofluoromethane	ND		1.0	ug/L
1,1-Dichloroethene	ND		1.0	ug/L
Methylene chloride	ND		1.0	ug/L
trans-1,2-Dichloroethene	ND		1.0	ug/L
1,1-Dichloroethane	ND		1.0	ug/L
2,2-Dichloropropane	ND		1.0	ug/L
cis-1,2-Dichloroethene	1.3		1.0	ug/L
Chloroform	ND		1.0	ug/L
Bromochloromethane	ND		1.0	ug/L
1,1,1-Trichloroethane	ND		1.0	ug/L
1,1-Dichloropropene	ND		1.0	ug/L
Carbon tetrachloride	ND		1.0	ug/L
1,2-Dichloroethane	ND		1.0	ug/L
Benzene	ND		1.0	ug/L
Trichloroethene	3.5		1.0	ug/L
1,2-Dichloropropane	ND		1.0	ug/L
Bromodichloromethane	ND		1.0	ug/L
Dibromomethane	ND		1.0	ug/L
Toluene	ND		1.0	ug/L
1,1,2-Trichloroethane	ND		1.0	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	ug/L
1,3-Dichloropropane	ND		1.0	ug/L
Tetrachloroethene	ND		1.0	ug/L
Dibromochloromethane	ND		1.0	ug/L
Chlorobenzene	ND		1.0	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L
Ethylbenzene	ND		1.0	ug/L
Xylenes (total)	ND		1.0	ug/L
Styrene	ND		1.0	ug/L
Bromoform	ND		1.0	ug/L
1-Methylethylbenzene	ND		1.0	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L
1,2,3-Trichloropropane	ND		1.0	ug/L
n-Propyl benzene	ND		1.0	ug/L
Bromobenzene	ND		1.0	ug/L
1,3,5-Trimethylbenzene	ND		1.0	ug/L
2-Chlorotoluene	ND		1.0	ug/L
4-Chlorotoluene	ND		1.0	ug/L
tert-Butylbenzene	ND		1.0	ug/L
1,2,4-Trimethylbenzene	ND		1.0	ug/L

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name:	Kennedy/Jenks Consultants		
Client ID:	WCC1D-16		
LAB ID:	121378-0003-SA		
Matrix:	WATER	Sampled: 18 SEP 96	Received: 19 SEP 96
Authorized:	19 SEP 96	Prepared: 25 SEP 96	Analyzed: 25 SEP 96
Instrument:	GC/MS-MD	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
sec-Butylbenzene	ND		1.0	ug/L
Isopropyltoluene	ND		1.0	ug/L
1,3-Dichlorobenzene	ND		1.0	ug/L
1,4-Dichlorobenzene	ND		1.0	ug/L
n-Butylbenzene	ND		1.0	ug/L
1,2-Dichlorobenzene	ND		1.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	ug/L
1,2,4-Trichlorobenzene	ND		1.0	ug/L
Hexachlorobutadiene	ND		1.0	ug/L
Naphthalene	ND		1.0	ug/L
1,2,3-Trichlorobenzene	ND		1.0	ug/L
Acetone	ND		10	ug/L
2-Butanone	ND		10	ug/L
4-Methyl-2-pentanone	ND		10	ug/L
2-Hexanone	ND		10	ug/L
Carbon disulfide	ND		5.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	106	%	80 - 120
Toluene-d8	101	%	88 - 110
Bromofluorobenzene	98	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name:	Kennedy/Jenks Consultants		
Client ID:	DW-091896		
LAB ID:	121378-0004-SA		
Matrix:	WATER-QA	Sampled: 18 SEP 96	Received: 19 SEP 96
Authorized:	19 SEP 96	Prepared: 25 SEP 96	Analyzed: 25 SEP 96
Instrument:	GC/MS-MD	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		1.0	ug/L
Chloromethane	ND		1.0	ug/L
Vinyl chloride	ND		1.0	ug/L
Bromomethane	ND		1.0	ug/L
Chloroethane	ND		1.0	ug/L
Trichlorofluoromethane	ND		1.0	ug/L
1,1-Dichloroethene	ND		1.0	ug/L
Methylene chloride	ND		1.0	ug/L
trans-1,2-Dichloroethene	ND		1.0	ug/L
1,1-Dichloroethane	ND		1.0	ug/L
2,2-Dichloropropane	ND		1.0	ug/L
cis-1,2-Dichloroethene	1.4		1.0	ug/L
Chloroform	ND		1.0	ug/L
Bromochloromethane	ND		1.0	ug/L
1,1,1-Trichloroethane	ND		1.0	ug/L
1,1-Dichloropropene	ND		1.0	ug/L
Carbon tetrachloride	ND		1.0	ug/L
1,2-Dichloroethane	ND		1.0	ug/L
Benzene	ND		1.0	ug/L
Trichloroethene	3.6		1.0	ug/L
1,2-Dichloropropane	ND		1.0	ug/L
Bromodichloromethane	ND		1.0	ug/L
Dibromomethane	ND		1.0	ug/L
Toluene	ND		1.0	ug/L
1,1,2-Trichloroethane	ND		1.0	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	ug/L
1,3-Dichloropropane	ND		1.0	ug/L
Tetrachloroethene	ND		1.0	ug/L
Dibromochloromethane	ND		1.0	ug/L
Chlorobenzene	ND		1.0	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L
Ethylbenzene	ND		1.0	ug/L
Xylenes (total)	ND		1.0	ug/L
Styrene	ND		1.0	ug/L
Bromoform	ND		1.0	ug/L
1-Methylethylbenzene	ND		1.0	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L
1,2,3-Trichloropropane	ND		1.0	ug/L
n-Propyl benzene	ND		1.0	ug/L
Bromobenzene	ND		1.0	ug/L
1,3,5-Trimethylbenzene	ND		1.0	ug/L
2-Chlorotoluene	ND		1.0	ug/L
4-Chlorotoluene	ND		1.0	ug/L
tert-Butylbenzene	ND		1.0	ug/L
1,2,4-Trimethylbenzene	ND		1.0	ug/L

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name:	Kennedy/Jenks Consultants		
Client ID:	DW-091896		
LAB ID:	121378-0004-SA		
Matrix:	WATER-QA	Sampled: 18 SEP 96	Received: 19 SEP 96
Authorized:	19 SEP 96	Prepared: 25 SEP 96	Analyzed: 25 SEP 96
Instrument:	GC/MS-MD	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
sec-Butylbenzene	ND		1.0	ug/L
Isopropyltoluene	ND		1.0	ug/L
1,3-Dichlorobenzene	ND		1.0	ug/L
1,4-Dichlorobenzene	ND		1.0	ug/L
n-Butylbenzene	ND		1.0	ug/L
1,2-Dichlorobenzene	ND		1.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	ug/L
1,2,4-Trichlorobenzene	ND		1.0	ug/L
Hexachlorobutadiene	ND		1.0	ug/L
Naphthalene	ND		1.0	ug/L
1,2,3-Trichlorobenzene	ND		1.0	ug/L
Acetone	ND		10	ug/L
2-Butanone	ND		10	ug/L
4-Methyl-2-pentanone	ND		10	ug/L
2-Hexanone	ND		10	ug/L
Carbon disulfide	ND		5.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	108	%	80 - 120
Toluene-d8	104	%	88 - 110
Bromofluorobenzene	100	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name:	Kennedy/Jenks Consultants		
Client ID:	TB-091896		
LAB ID:	121378-0005-SA		
Matrix:	WATER-QA	Sampled: 18 SEP 96	Received: 19 SEP 96
Authorized:	19 SEP 96	Prepared: 25 SEP 96	Analyzed: 25 SEP 96
Instrument:	GC/MS-MD	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		1.0	ug/L
Chloromethane	ND		1.0	ug/L
Vinyl chloride	ND		1.0	ug/L
Bromomethane	ND		1.0	ug/L
Chloroethane	ND		1.0	ug/L
Trichlorofluoromethane	ND		1.0	ug/L
1,1-Dichloroethene	ND		1.0	ug/L
Methylene chloride	ND		1.0	ug/L
trans-1,2-Dichloroethene	ND		1.0	ug/L
1,1-Dichloroethane	ND		1.0	ug/L
2,2-Dichloropropane	ND		1.0	ug/L
cis-1,2-Dichloroethene	ND		1.0	ug/L
Chloroform	ND		1.0	ug/L
Bromochloromethane	ND		1.0	ug/L
1,1,1-Trichloroethane	ND		1.0	ug/L
1,1-Dichloropropene	ND		1.0	ug/L
Carbon tetrachloride	ND		1.0	ug/L
1,2-Dichloroethane	ND		1.0	ug/L
Benzene	ND		1.0	ug/L
Trichloroethene	ND		1.0	ug/L
1,2-Dichloropropane	ND		1.0	ug/L
Bromodichloromethane	ND		1.0	ug/L
Dibromomethane	ND		1.0	ug/L
Toluene	ND		1.0	ug/L
1,1,2-Trichloroethane	ND		1.0	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	ug/L
1,3-Dichloropropane	ND		1.0	ug/L
Tetrachloroethene	ND		1.0	ug/L
Dibromochloromethane	ND		1.0	ug/L
Chlorobenzene	ND		1.0	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L
Ethylbenzene	ND		1.0	ug/L
Xylenes (total)	ND		1.0	ug/L
Styrene	ND		1.0	ug/L
Bromoform	ND		1.0	ug/L
1-Methylethylbenzene	ND		1.0	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L
1,2,3-Trichloropropane	ND		1.0	ug/L
n-Propyl benzene	ND		1.0	ug/L
Bromobenzene	ND		1.0	ug/L
1,3,5-Trimethylbenzene	ND		1.0	ug/L
2-Chlorotoluene	ND		1.0	ug/L
4-Chlorotoluene	ND		1.0	ug/L
tert-Butylbenzene	ND		1.0	ug/L
1,2,4-Trimethylbenzene	ND		1.0	ug/L

ND = Not Detected

Quanterra Environmental Services

(cont.)

Volatile Organic Compounds
Method 8260

Client Name:	Kennedy/Jenks Consultants		
Client ID:	TB-091896		
LAB ID:	121378-0005-SA		
Matrix:	WATER-QA	Sampled: 18 SEP 96	Received: 19 SEP 96
Authorized:	19 SEP 96	Prepared: 25 SEP 96	Analyzed: 25 SEP 96
Instrument:	GC/MS-MD	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
sec-Butylbenzene	ND		1.0	ug/L
Isopropyltoluene	ND		1.0	ug/L
1,3-Dichlorobenzene	ND		1.0	ug/L
1,4-Dichlorobenzene	ND		1.0	ug/L
n-Butylbenzene	ND		1.0	ug/L
1,2-Dichlorobenzene	ND		1.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	ug/L
1,2,4-Trichlorobenzene	ND		1.0	ug/L
Hexachlorobutadiene	ND		1.0	ug/L
Naphthalene	ND		1.0	ug/L
1,2,3-Trichlorobenzene	ND		1.0	ug/L
Acetone	ND		10	ug/L
2-Butanone	ND		10	ug/L
4-Methyl-2-pentanone	ND		10	ug/L
2-Hexanone	ND		10	ug/L
Carbon disulfide	ND		5.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	106	%	80 - 120
Toluene-d8	102	%	88 - 110
Bromofluorobenzene	96	%	86 - 115

ND = Not Detected

Quanterra Incorporated
1721 South Grand Avenue
Santa Ana, California 92705

714 258-8610 Telephone
714 258-0921 Fax

Quanterra
Environmental Services

October 11, 1996

KENNEDY/JENKS CONSULTANTS
2151 MICHELSON DRIVE, SUITE 100
IRVINE, CA 92715
ATTN: MR. JAY KNIGHT

LIMS NO.: 121425-0001/0015
DATE SAMPLED: 19-SEP-1996
DATE SAMPLE REC'D: 20-SEP-1996
PROJECT: DAC

Enclosed with this letter is the report containing the analytical results for the project specified above.

The Narrative section included in the following attachment provides a detailed description of all events that occurred during sample processing, analysis, and data review as applicable to the samples and analytical methods requested.

Report data sheets contain a list of the requested constituents measured in each test, the analytical results, and the standard reporting limits (RLs). Reporting limits are adjusted to reflect any dilution or dry weight correction, when applicable. Also provided in this report are the LIMS Report Key and the terms and abbreviations commonly used in our reports.

Preliminary data were provided on October 4, 1996 at 5:55 P.M. to Jay Knight.

The report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding the data provided in this report, please call Pat Abe at (714) 258-8610. Release of this report has been authorized by the Lab Director or the designee as demonstrated by the following signature.

Sincerely,

M. Velazquez

Project Manager

cc: Project File

Quanterra Environmental Services

LIMS REPORT KEY

Section	Description
Cover letter	Signature page, report narrative as applicable.
Sample Description Information	Tabulated cross-reference between the Lab ID and Client ID, including matrix, date and time sampled and the date received for all samples in the project.
Sample Analysis Results Sheets	Lists sample results, test components, reporting limits, dates prepared and analyzed and any data qualifiers. Pages are organized by test.
QC Lot Assignment Report	Cross-reference between lab IDs and applicable QC batches (DCS, LCS, SCS, Blank, MS/SD, DU)
Duplicate Control Sample Report	Percent recovery and RPD results, with acceptance limits, for the laboratory Duplicate Control Samples for each test are tabulated in this report. These are measures of accuracy and precision for each test.
Laboratory Control Sample Report	Percent recovery results for a single Laboratory Control Sample (if applicable) are tabulated in this report, with the applicable acceptance limits for each test.
Matrix Spike/Matrix Spike Duplicate Report	Percent recovery and RPD results for matrix-specific QC samples and acceptance limits, where applicable. This report can be used to assess matrix effects on an analysis.
Single Control Sample Report	A tabulation of the surrogate recoveries for the blank for organic analyses.
Method Blank Report	A summary of the results of the analysis of the method blank for each test.

List of Abbreviations and Terms

DCS	Duplicate Control Sample	MSD	Matrix Spike Duplicate
DU	Sample Duplicate	QC Run	Preparation batch
EB	Equipment Blank	QC Category	LIMS QC Category
FB	Field Blank	QC Lot	DCS batch
FD	Field Duplicate	ND	Not Detected at the reporting limit expressed
IDL	Instrument Detection Limit	QC Matrix	Matrix of the laboratory control sample (s)
LCS	Laboratory Control Sample	RL	Reporting Limit
MB	Method Blank	QC	Quality Control
MDL	Method Detection Limit	SA	Sample
MS	Matrix Spike	SD	See MSD
RPD	Relative Percent Difference	TB	Trip Blank
ppm (parts-per-million)	mg/L or mg/kg	ppb (parts-per-billion)	µg/L or µg/kg
QUAL	Qualifier flag	DIL	Dilution Factor

Refer to the Quanterra Incorporated Quality Assurance Management Plan for detailed explanations of terms summarized above.

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Chain-of-Custody Records and Sample Description Information

Analytical Results Summary (LIMS Report)

A. LIMS Datasheets
B. QC Summaries

CASE NARRATIVE

LIMS # 121425

I. CONDITION UPON RECEIPT

The samples were not received in a cooler. The samples, however, were cold to the touch.

Sample containers were received intact. The VOA vials did not contain headspace. Sample container label did agree with the COC as to sample ID, collection time, and requested tests. The date of collection for all samples was verified with Jay Knight on September 23, 1996.

Samples were received in time to meet the method holding time specifications.

II. ORGANIC ANALYSES (BY METHOD: SW8260)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

SURROGATE RECOVERIES
All surrogate spike recoveries in samples and in QC samples met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

Chain of Custody Record

Quanterra Environmental Services

QUA-4124-1

Client	Project Manager	Date	Chain Of Custody Number
Kennedy / Jenks	Jay Knight	9/19/96	64210
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	
2151 Mickelson Dr. Ste 100	714-261-1577	12495	Page 1 of 2
City / State / Zip Code	**Site Contact / Lab Contact**		
Irvine, CA. 92715			
Project Name	**Carrier/Waybill Number**		
DAC			
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): 8260	Special Instructions/ Conditions of Receipt
WCC10S-16	9/19/96	712	X							X				X	
WCC2S-16		800	X							X				X	
WCC11S-16		850	X							X				X	
WCC12S-16		954	X							X				X	
WCC7S-16		1050	X							X				X	
WCC8S-16		1128	X							X				X	
WCC4S-16		1215	X							X				X	
WCC1S-16		1304	X							X				X	
WCC3D-16		1430	X							X				X	
WCC3S-16		1526	X							X				X	

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal

☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required

☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other _____

QC Requirements (Specify)

Relinquished By	Date	Time	Received By	Date	Time
1. [signature]	9/19/96	1830	1. [signature]	9-19-96	1830
2. [signature]	9-20-96	1025	2. [signature] K. FREITAG	9/20/96	1025
3.			3.		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

BOE-C6-0193075

Chain of Custody Record

Quanterra Environmental Services

QUA-4124-1

Client	Project Manager	Date	Chain Of Custody Number
Kennedy / Jenks	Jay Knight	9/19/96	64208
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 2 of 2**
2151 Michelson Dr. Ste 100	714-261-1577	121425	

City	State	Zip Code	Site Contact	Lab Contact
Irvine ~~Bakersfield~~	CA	92715		

Project Name: DAC

Carrier/Waybill Number:

Contract/Purchase Order/Quote No.:

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		8260	Special Instructions/ Conditions of Receipt
WCC 6S-16	9/19/96	1624	X							X				X	
DACP1-16		1742	X							X				X	
EB-091996		1800	X							X				X	
DW-091996		—	X							X				X	
TB-091996		—	X							X				X	

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: [ ] 24 Hours [ ] 48 Hours [ ] 7 Days [ ] 14 Days [ ] 21 Days [ ] Other _____

QC Requirements (Specify):

Relinquished By	Date	Time	Received By	Date	Time
1. [signature]	9/19/96	1830	1. [signature]	9-19-96	1830
2. [signature]	9/20/96	1025	2. [signature] K. FREITAG	9/20/96	1025
3.			3.		

Comments:

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

BOE-C6-0193076

Quanterra
Environmental Services

SAMPLE DESCRIPTION INFORMATION
for
Kennedy/Jenks Consultants

Lab ID	Client ID	Matrix	Sampled Date	Sampled Time	Received Date
121425-0001-SA	WCC10S-16	WATER	19 SEP 96	07:12	20 SEP 96
121425-0002-SA	WCC2S-16	WATER	19 SEP 96	08:00	20 SEP 96
121425-0003-SA	WCC11S-16	WATER	19 SEP 96	08:50	20 SEP 96
121425-0004-SA	WCC12S-16	WATER	19 SEP 96	09:54	20 SEP 96
121425-0005-SA	WCC7S-16	WATER	19 SEP 96	10:50	20 SEP 96
121425-0006-SA	WCC8S-16	WATER	19 SEP 96	11:28	20 SEP 96
121425-0007-SA	WCC4S-16	WATER	19 SEP 96	12:15	20 SEP 96
121425-0008-SA	WCC1S-16	WATER	19 SEP 96	13:04	20 SEP 96
121425-0009-SA	WCC3D-16	WATER	19 SEP 96	14:30	20 SEP 96
121425-0010-SA	WCC3S-16	WATER	19 SEP 96	15:26	20 SEP 96
121425-0011-SA	WCC6S-16	WATER	19 SEP 96	16:24	20 SEP 96
121425-0012-SA	DACP1-16	WATER	19 SEP 96	17:42	20 SEP 96
121425-0013-EB	EB-091996	WATER-QA	19 SEP 96	18:00	20 SEP 96
121425-0014-SA	DW-091996	WATER	19 SEP 96		20 SEP 96
121425-0015-TB	TB-091996	WATER-QA	19 SEP 96		20 SEP 96

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: WCC10S-16
LAB ID: 121425-0001-SA
Matrix: WATER
Authorized: 20 SEP 96
Instrument: GC/MS-MC

Sampled: 19 SEP 96
Prepared: 02 OCT 96
Dilution: 2.0

Received: 20 SEP 96
Analyzed: 02 OCT 96

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		2.0	ug/L
Chloromethane	ND		2.0	ug/L
Vinyl chloride	ND		2.0	ug/L
Bromomethane	ND		2.0	ug/L
Chloroethane	ND		2.0	ug/L
Trichlorofluoromethane	ND		2.0	ug/L
1,1-Dichloroethene	22		2.0	ug/L
Methylene chloride	ND		2.0	ug/L
trans-1,2-Dichloroethene	ND		2.0	ug/L
1,1-Dichloroethane	ND		2.0	ug/L
2,2-Dichloropropane	ND		2.0	ug/L
cis-1,2-Dichloroethene	ND		2.0	ug/L
Chloroform	2.5		2.0	ug/L
Bromochloromethane	ND		2.0	ug/L
1,1,1-Trichloroethane	ND		2.0	ug/L
1,1-Dichloropropene	ND		2.0	ug/L
Carbon tetrachloride	ND		2.0	ug/L
1,2-Dichloroethane	ND		2.0	ug/L
Benzene	ND		2.0	ug/L
Trichloroethene	120		2.0	ug/L
1,2-Dichloropropane	ND		2.0	ug/L
Bromodichloromethane	ND		2.0	ug/L
Dibromomethane	ND		2.0	ug/L
Toluene	ND		2.0	ug/L
1,1,2-Trichloroethane	ND		2.0	ug/L
1,2-Dibromoethane (EDB)	ND		2.0	ug/L
1,3-Dichloropropane	ND		2.0	ug/L
Tetrachloroethene	ND		2.0	ug/L
Dibromochloromethane	ND		2.0	ug/L
Chlorobenzene	ND		2.0	ug/L
1,1,1,2-Tetrachloroethane	ND		2.0	ug/L
Ethylbenzene	ND		2.0	ug/L
Xylenes (total)	ND		2.0	ug/L
Styrene	ND		2.0	ug/L
Bromoform	ND		2.0	ug/L
1-Methylethylbenzene	ND		2.0	ug/L
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L
1,2,3-Trichloropropane	ND		2.0	ug/L
n-Propyl benzene	ND		2.0	ug/L
Bromobenzene	ND		2.0	ug/L
1,3,5-Trimethylbenzene	ND		2.0	ug/L
2-Chlorotoluene	ND		2.0	ug/L
4-Chlorotoluene	ND		2.0	ug/L
tert-Butylbenzene	ND		2.0	ug/L
1,2,4-Trimethylbenzene	ND		2.0	ug/L

ND = Not Detected

Quanterra Environmental Services

(cont.)

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: WCC10S-16
LAB ID: 121425-0001-SA
Matrix: WATER
Authorized: 20 SEP 96
Instrument: GC/MS-MC

Sampled: 19 SEP 96
Prepared: 02 OCT 96
Dilution: 2.0

Received: 20 SEP 96
Analyzed: 02 OCT 96

Parameter	Result	Qualifier	RL	Units
sec-Butylbenzene	ND		2.0	ug/L
Isopropyltoluene	ND		2.0	ug/L
1,3-Dichlorobenzene	ND		2.0	ug/L
1,4-Dichlorobenzene	ND		2.0	ug/L
n-Butylbenzene	ND		2.0	ug/L
1,2-Dichlorobenzene	ND		2.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		2.0	ug/L
1,2,4-Trichlorobenzene	ND		2.0	ug/L
Hexachlorobutadiene	ND		2.0	ug/L
Naphthalene	ND		2.0	ug/L
1,2,3-Trichlorobenzene	ND		2.0	ug/L
Acetone	ND		20	ug/L
2-Butanone	ND		20	ug/L
4-Methyl-2-pentanone	ND		20	ug/L
2-Hexanone	ND		20	ug/L
Carbon disulfide	ND		10	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	96	%	80 - 120
Toluene-d8	88	%	88 - 110
Bromofluorobenzene	93	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: WCC2S-16
LAB ID: 121425-0002-SA
Matrix: WATER
Authorized: 20 SEP 96
Instrument: GC/MS-MD

Sampled: 19 SEP 96
Prepared: 30 SEP 96
Dilution: 1.0

Received: 20 SEP 96
Analyzed: 30 SEP 96

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		1.0	ug/L
Chloromethane	ND		1.0	ug/L
Vinyl chloride	ND		1.0	ug/L
Bromomethane	ND		1.0	ug/L
Chloroethane	ND		1.0	ug/L
Trichlorofluoromethane	ND		1.0	ug/L
1,1-Dichloroethene	23		1.0	ug/L
Methylene chloride	ND		1.0	ug/L
trans-1,2-Dichloroethene	ND		1.0	ug/L
1,1-Dichloroethane	ND		1.0	ug/L
2,2-Dichloropropane	ND		1.0	ug/L
cis-1,2-Dichloroethene	ND		1.0	ug/L
Chloroform	ND		1.0	ug/L
Bromochloromethane	ND		1.0	ug/L
1,1,1-Trichloroethane	ND		1.0	ug/L
1,1-Dichloropropene	ND		1.0	ug/L
Carbon tetrachloride	ND		1.0	ug/L
1,2-Dichloroethane	ND		1.0	ug/L
Benzene	ND		1.0	ug/L
Trichloroethene	98		1.0	ug/L
1,2-Dichloropropane	ND		1.0	ug/L
Bromodichloromethane	ND		1.0	ug/L
Dibromomethane	ND		1.0	ug/L
Toluene	ND		1.0	ug/L
1,1,2-Trichloroethane	ND		1.0	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	ug/L
1,3-Dichloropropane	ND		1.0	ug/L
Tetrachloroethene	ND		1.0	ug/L
Dibromochloromethane	ND		1.0	ug/L
Chlorobenzene	ND		1.0	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L
Ethylbenzene	ND		1.0	ug/L
Xylenes (total)	ND		1.0	ug/L
Styrene	ND		1.0	ug/L
Bromoform	ND		1.0	ug/L
1-Methylethylbenzene	1.1		1.0	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L
1,2,3-Trichloropropane	ND		1.0	ug/L
n-Propyl benzene	ND		1.0	ug/L
Bromobenzene	ND		1.0	ug/L
1,3,5-Trimethylbenzene	ND		1.0	ug/L
2-Chlorotoluene	ND		1.0	ug/L
4-Chlorotoluene	ND		1.0	ug/L
tert-Butylbenzene	ND		1.0	ug/L
1,2,4-Trimethylbenzene	ND		1.0	ug/L

ND = Not Detected

Quanterra Environmental Services

(cont.)

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: WCC2S-16
LAB ID: 121425-0002-SA
Matrix: WATER — Sampled: 19 SEP 96 — Received: 20 SEP 96
Authorized: 20 SEP 96 — Prepared: 30 SEP 96 — Analyzed: 30 SEP 96
Instrument: GC/MS-MD — Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
sec-Butylbenzene	ND		1.0	ug/L
Isopropyltoluene	ND		1.0	ug/L
1,3-Dichlorobenzene	ND		1.0	ug/L
1,4-Dichlorobenzene	ND		1.0	ug/L
n-Butylbenzene	ND		1.0	ug/L
1,2-Dichlorobenzene	ND		1.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	ug/L
1,2,4-Trichlorobenzene	ND		1.0	ug/L
Hexachlorobutadiene	ND		1.0	ug/L
Naphthalene	ND		1.0	ug/L
1,2,3-Trichlorobenzene	ND		1.0	ug/L
Acetone	ND		10	ug/L
2-Butanone	ND		10	ug/L
4-Methyl-2-pentanone	ND		10	ug/L
2-Hexanone	ND		10	ug/L
Carbon disulfide	ND		5.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	89	%	80 - 120
Toluene-d8	100	%	88 - 110
Bromofluorobenzene	94	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: WCC11S-16
LAB ID: 121425-0003-SA
Matrix: WATER
Authorized: 20 SEP 96
Instrument: GC/MS-MD

Sampled: 19 SEP 96
Prepared: 03 OCT 96
Dilution: 5.0

Received: 20 SEP 96
Analyzed: 03 OCT 96

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		5.0	ug/L
Chloromethane	ND		5.0	ug/L
Vinyl chloride	ND		5.0	ug/L
Bromomethane	ND		5.0	ug/L
Chloroethane	ND		5.0	ug/L
Trichlorofluoromethane	ND		5.0	ug/L
1,1-Dichloroethene	22		5.0	ug/L
Methylene chloride	ND		5.0	ug/L
trans-1,2-Dichloroethene	ND		5.0	ug/L
1,1-Dichloroethane	ND		5.0	ug/L
2,2-Dichloropropane	ND		5.0	ug/L
cis-1,2-Dichloroethene	ND		5.0	ug/L
Chloroform	ND		5.0	ug/L
Bromochloromethane	ND		5.0	ug/L
1,1,1-Trichloroethane	ND		5.0	ug/L
1,1-Dichloropropene	ND		5.0	ug/L
Carbon tetrachloride	ND		5.0	ug/L
1,2-Dichloroethane	ND		5.0	ug/L
Benzene	ND		5.0	ug/L
Trichloroethene	150		5.0	ug/L
1,2-Dichloropropane	ND		5.0	ug/L
Bromodichloromethane	ND		5.0	ug/L
Dibromomethane	ND		5.0	ug/L
Toluene	ND		5.0	ug/L
1,1,2-Trichloroethane	ND		5.0	ug/L
1,2-Dibromoethane (EDB)	ND		5.0	ug/L
1,3-Dichloropropane	ND		5.0	ug/L
Tetrachloroethene	ND		5.0	ug/L
Dibromochloromethane	ND		5.0	ug/L
Chlorobenzene	ND		5.0	ug/L
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L
Ethylbenzene	ND		5.0	ug/L
Xylenes (total)	ND		5.0	ug/L
Styrene	ND		5.0	ug/L
Bromoform	ND		5.0	ug/L
1-Methylethylbenzene	ND		5.0	ug/L
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L
1,2,3-Trichloropropane	ND		5.0	ug/L
n-Propyl benzene	ND		5.0	ug/L
Bromobenzene	ND		5.0	ug/L
1,3,5-Trimethylbenzene	ND		5.0	ug/L
2-Chlorotoluene	ND		5.0	ug/L
4-Chlorotoluene	ND		5.0	ug/L
tert-Butylbenzene	ND		5.0	ug/L
1,2,4-Trimethylbenzene	ND		5.0	ug/L

ND = Not Detected

Quanterra Environmental Services

(cont.)

Volatile Organic Compounds
Method 8260

Client Name:	Kennedy/Jenks Consultants		
Client ID:	WCC11S-16		
LAB ID:	121425-0003-SA		
Matrix:	WATER	Sampled: 19 SEP 96	Received: 20 SEP 96
Authorized:	20 SEP 96	Prepared: 03 OCT 96	Analyzed: 03 OCT 96
Instrument:	GC/MS-MD	Dilution: 5.0	

Parameter	Result	Qualifier	RL	Units
sec-Butylbenzene	ND		5.0	ug/L
Isopropyltoluene	ND		5.0	ug/L
1,3-Dichlorobenzene	ND		5.0	ug/L
1,4-Dichlorobenzene	ND		5.0	ug/L
n-Butylbenzene	ND		5.0	ug/L
1,2-Dichlorobenzene	ND		5.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		5.0	ug/L
1,2,4-Trichlorobenzene	ND		5.0	ug/L
Hexachlorobutadiene	ND		5.0	ug/L
Naphthalene	ND		5.0	ug/L
1,2,3-Trichlorobenzene	ND		5.0	ug/L
Acetone	ND		50	ug/L
2-Butanone	ND		50	ug/L
4-Methyl-2-pentanone	ND		50	ug/L
2-Hexanone	ND		50	ug/L
Carbon disulfide	ND		25	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	99	%	80 - 120
Toluene-d8	95	%	88 - 110
Bromofluorobenzene	106	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: WCC12S-16
LAB ID: 121425-0004-SA
Matrix: WATER
Authorized: 20 SEP 96
Instrument: GC/MS-MC

Sampled: 19 SEP 96
Prepared: 02 OCT 96
Dilution: 2.0

Received: 20 SEP 96
Analyzed: 02 OCT 96

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		2.0	ug/L
Chloromethane	ND		2.0	ug/L
Vinyl chloride	ND		2.0	ug/L
Bromomethane	ND		2.0	ug/L
Chloroethane	ND		2.0	ug/L
Trichlorofluoromethane	ND		2.0	ug/L
1,1-Dichloroethene	48		2.0	ug/L
Methylene chloride	ND		2.0	ug/L
trans-1,2-Dichloroethene	ND		2.0	ug/L
1,1-Dichloroethane	15		2.0	ug/L
2,2-Dichloropropane	ND		2.0	ug/L
cis-1,2-Dichloroethene	2.5		2.0	ug/L
Chloroform	2.2		2.0	ug/L
Bromochloromethane	ND		2.0	ug/L
1,1,1-Trichloroethane	ND		2.0	ug/L
1,1-Dichloropropene	ND		2.0	ug/L
Carbon tetrachloride	ND		2.0	ug/L
1,2-Dichloroethane	ND		2.0	ug/L
Benzene	ND		2.0	ug/L
Trichloroethene	150		2.0	ug/L
1,2-Dichloropropane	ND		2.0	ug/L
Bromodichloromethane	ND		2.0	ug/L
Dibromomethane	ND		2.0	ug/L
Toluene	ND		2.0	ug/L
1,1,2-Trichloroethane	ND		2.0	ug/L
1,2-Dibromoethane (EDB)	ND		2.0	ug/L
1,3-Dichloropropane	ND		2.0	ug/L
Tetrachloroethene	ND		2.0	ug/L
Dibromochloromethane	ND		2.0	ug/L
Chlorobenzene	ND		2.0	ug/L
1,1,1,2-Tetrachloroethane	ND		2.0	ug/L
Ethylbenzene	ND		2.0	ug/L
Xylenes (total)	ND		2.0	ug/L
Styrene	ND		2.0	ug/L
Bromoform	ND		2.0	ug/L
1-Methylethylbenzene	ND		2.0	ug/L
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L
1,2,3-Trichloropropane	ND		2.0	ug/L
n-Propyl benzene	ND		2.0	ug/L
Bromobenzene	ND		2.0	ug/L
1,3,5-Trimethylbenzene	ND		2.0	ug/L
2-Chlorotoluene	ND		2.0	ug/L
4-Chlorotoluene	ND		2.0	ug/L
tert-Butylbenzene	ND		2.0	ug/L
1,2,4-Trimethylbenzene	ND		2.0	ug/L

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name:	Kennedy/Jenks Consultants		
Client ID:	WCC12S-16		
LAB ID:	121425-0004-SA		
Matrix:	WATER	Sampled: 19 SEP 96	Received: 20 SEP 96
Authorized:	20 SEP 96	Prepared: 02 OCT 96	Analyzed: 02 OCT 96
Instrument:	GC/MS-MC	Dilution: 2.0	

Parameter	Result	Qualifier	RL	Units
sec-Butylbenzene	ND		2.0	ug/L
Isopropyltoluene	ND		2.0	ug/L
1,3-Dichlorobenzene	ND		2.0	ug/L
1,4-Dichlorobenzene	ND		2.0	ug/L
n-Butylbenzene	ND		2.0	ug/L
1,2-Dichlorobenzene	ND		2.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		2.0	ug/L
1,2,4-Trichlorobenzene	ND		2.0	ug/L
Hexachlorobutadiene	ND		2.0	ug/L
Naphthalene	ND		2.0	ug/L
1,2,3-Trichlorobenzene	ND		2.0	ug/L
Acetone	ND		20	ug/L
2-Butanone	ND		20	ug/L
4-Methyl-2-pentanone	ND		20	ug/L
2-Hexanone	ND		20	ug/L
Carbon disulfide	ND		10	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	106	%	80 - 120
Toluene-d8	92	%	88 - 110
Bromofluorobenzene	98	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: WCC7S-16
LAB ID: 121425-0005-SA
Matrix: WATER
Authorized: 20 SEP 96
Instrument: GC/MS-MC

Sampled: 19 SEP 96
Prepared: 02 OCT 96
Dilution: 2.0

Received: 20 SEP 96
Analyzed: 02 OCT 96

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		2.0	ug/L
Chloromethane	ND		2.0	ug/L
Vinyl chloride	ND		2.0	ug/L
Bromomethane	ND		2.0	ug/L
Chloroethane	ND		2.0	ug/L
Trichlorofluoromethane	ND		2.0	ug/L
1,1-Dichloroethene	120		2.0	ug/L
Methylene chloride	ND		2.0	ug/L
trans-1,2-Dichloroethene	ND		2.0	ug/L
1,1-Dichloroethane	ND		2.0	ug/L
2,2-Dichloropropane	ND		2.0	ug/L
cis-1,2-Dichloroethene	ND		2.0	ug/L
Chloroform	ND		2.0	ug/L
Bromochloromethane	ND		2.0	ug/L
1,1,1-Trichloroethane	ND		2.0	ug/L
1,1-Dichloropropene	ND		2.0	ug/L
Carbon tetrachloride	ND		2.0	ug/L
1,2-Dichloroethane	ND		2.0	ug/L
Benzene	ND		2.0	ug/L
Trichloroethene	150		2.0	ug/L
1,2-Dichloropropane	ND		2.0	ug/L
Bromodichloromethane	ND		2.0	ug/L
Dibromomethane	ND		2.0	ug/L
Toluene	ND		2.0	ug/L
1,1,2-Trichloroethane	ND		2.0	ug/L
1,2-Dibromoethane (EDB)	ND		2.0	ug/L
1,3-Dichloropropane	ND		2.0	ug/L
Tetrachloroethene	ND		2.0	ug/L
Dibromochloromethane	ND		2.0	ug/L
Chlorobenzene	ND		2.0	ug/L
1,1,1,2-Tetrachloroethane	ND		2.0	ug/L
Ethylbenzene	ND		2.0	ug/L
Xylenes (total)	ND		2.0	ug/L
Styrene	ND		2.0	ug/L
Bromoform	ND		2.0	ug/L
1-Methylethylbenzene	ND		2.0	ug/L
1,1,2,2-Tetrachloroethane	ND		2.0	ug/L
1,2,3-Trichloropropane	ND		2.0	ug/L
n-Propyl benzene	ND		2.0	ug/L
Bromobenzene	ND		2.0	ug/L
1,3,5-Trimethylbenzene	ND		2.0	ug/L
2-Chlorotoluene	ND		2.0	ug/L
4-Chlorotoluene	ND		2.0	ug/L
tert-Butylbenzene	ND		2.0	ug/L
1,2,4-Trimethylbenzene	ND		2.0	ug/L

ND = Not Detected

Quanterra Environmental Services

(cont.)

Volatile Organic Compounds
Method 8260

Client Name:	Kennedy/Jenks Consultants		
Client ID:	WCC7S-16		
LAB ID:	121425-0005-SA		
Matrix:	WATER	Sampled: 19 SEP 96	Received: 20 SEP 96
Authorized:	20 SEP 96	Prepared: 02 OCT 96	Analyzed: 02 OCT 96
Instrument:	GC/MS-MC	Dilution: 2.0	

Parameter	Result	Qualifier	RL	Units
sec-Butylbenzene	ND		2.0	ug/L
Isopropyltoluene	ND		2.0	ug/L
1,3-Dichlorobenzene	ND		2.0	ug/L
1,4-Dichlorobenzene	ND		2.0	ug/L
n-Butylbenzene	ND		2.0	ug/L
1,2-Dichlorobenzene	ND		2.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		2.0	ug/L
1,2,4-Trichlorobenzene	ND		2.0	ug/L
Hexachlorobutadiene	ND		2.0	ug/L
Naphthalene	ND		2.0	ug/L
1,2,3-Trichlorobenzene	ND		2.0	ug/L
Acetone	ND		20	ug/L
2-Butanone	ND		20	ug/L
4-Methyl-2-pentanone	ND		20	ug/L
2-Hexanone	ND		20	ug/L
Carbon disulfide	ND		10	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	107	%	80 - 120
Toluene-d8	94	%	88 - 110
Bromofluorobenzene	101	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: WCC8S-16
LAB ID: 121425-0006-SA
Matrix: WATER
Authorized: 20 SEP 96
Instrument: GC/MS-MD

Sampled: 19 SEP 96
Prepared: 03 OCT 96
Dilution: 50

Received: 20 SEP 96
Analyzed: 03 OCT 96

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		50	ug/L
Chloromethane	ND		50	ug/L
Vinyl chloride	ND		50	ug/L
Bromomethane	ND		50	ug/L
Chloroethane	ND		50	ug/L
Trichlorofluoromethane	ND		50	ug/L
1,1-Dichloroethene	3400		50	ug/L
Methylene chloride	ND		50	ug/L
trans-1,2-Dichloroethene	ND		50	ug/L
1,1-Dichloroethane	ND		50	ug/L
2,2-Dichloropropane	ND		50	ug/L
cis-1,2-Dichloroethene	ND		50	ug/L
Chloroform	ND		50	ug/L
Bromochloromethane	ND		50	ug/L
1,1,1-Trichloroethane	59		50	ug/L
1,1-Dichloropropene	ND		50	ug/L
Carbon tetrachloride	ND		50	ug/L
1,2-Dichloroethane	ND		50	ug/L
Benzene	ND		50	ug/L
Trichloroethene	1900		50	ug/L
1,2-Dichloropropane	ND		50	ug/L
Bromodichloromethane	ND		50	ug/L
Dibromomethane	ND		50	ug/L
Toluene	ND		50	ug/L
1,1,2-Trichloroethane	ND		50	ug/L
1,2-Dibromoethane (EDB)	ND		50	ug/L
1,3-Dichloropropane	ND		50	ug/L
Tetrachloroethene	ND		50	ug/L
Dibromochloromethane	ND		50	ug/L
Chlorobenzene	ND		50	ug/L
1,1,1,2-Tetrachloroethane	ND		50	ug/L
Ethylbenzene	ND		50	ug/L
Xylenes (total)	ND		50	ug/L
Styrene	ND		50	ug/L
Bromoform	ND		50	ug/L
1-Methylethylbenzene	ND		50	ug/L
1,1,2,2-Tetrachloroethane	ND		50	ug/L
1,2,3-Trichloropropane	ND		50	ug/L
n-Propyl benzene	ND		50	ug/L
Bromobenzene	ND		50	ug/L
1,3,5-Trimethylbenzene	ND		50	ug/L
2-Chlorotoluene	ND		50	ug/L
4-Chlorotoluene	ND		50	ug/L
tert-Butylbenzene	ND		50	ug/L
1,2,4-Trimethylbenzene	ND		50	ug/L

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260 (cont.)

Client Name:	Kennedy/Jenks Consultants		
Client ID:	WCC8S-16		
LAB ID:	121425-0006-SA		
Matrix:	WATER	Sampled: 19 SEP 96	Received: 20 SEP 96
Authorized:	20 SEP 96	Prepared: 03 OCT 96	Analyzed: 03 OCT 96
Instrument:	GC/MS-MD	Dilution: 50	

Parameter	Result	Qualifier	RL	Units
sec-Butylbenzene	ND		50	ug/L
Isopropyltoluene	ND		50	ug/L
1,3-Dichlorobenzene	ND		50	ug/L
1,4-Dichlorobenzene	ND		50	ug/L
n-Butylbenzene	ND		50	ug/L
1,2-Dichlorobenzene	ND		50	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		50	ug/L
1,2,4-Trichlorobenzene	ND		50	ug/L
Hexachlorobutadiene	ND		50	ug/L
Naphthalene	ND		50	ug/L
1,2,3-Trichlorobenzene	ND		50	ug/L
Acetone	ND		500	ug/L
2-Butanone	ND		500	ug/L
4-Methyl-2-pentanone	ND		500	ug/L
2-Hexanone	ND		500	ug/L
Carbon disulfide	ND		250	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	89	%	80 - 120
Toluene-d8	94	%	88 - 110
Bromofluorobenzene	91	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: WCC4S-16
LAB ID: 121425-0007-SA
Matrix: WATER
Authorized: 20 SEP 96
Instrument: GC/MS-MD

Sampled: 19 SEP 96
Prepared: 03 OCT 96
Dilution: 25

Received: 20 SEP 96
Analyzed: 03 OCT 96

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		25	ug/L
Chloromethane	ND		25	ug/L
Vinyl chloride	ND		25	ug/L
Bromomethane	ND		25	ug/L
Chloroethane	ND		25	ug/L
Trichlorofluoromethane	ND		25	ug/L
1,1-Dichloroethene	980		25	ug/L
Methylene chloride	ND		25	ug/L
trans-1,2-Dichloroethene	ND		25	ug/L
1,1-Dichloroethane	ND		25	ug/L
2,2-Dichloropropane	ND		25	ug/L
cis-1,2-Dichloroethene	ND		25	ug/L
Chloroform	ND		25	ug/L
Bromochloromethane	ND		25	ug/L
1,1,1-Trichloroethane	ND		25	ug/L
1,1-Dichloropropene	ND		25	ug/L
Carbon tetrachloride	ND		25	ug/L
1,2-Dichloroethane	ND		25	ug/L
Benzene	ND		25	ug/L
Trichloroethene	960		25	ug/L
1,2-Dichloropropane	ND		25	ug/L
Bromodichloromethane	ND		25	ug/L
Dibromomethane	ND		25	ug/L
Toluene	ND		25	ug/L
1,1,2-Trichloroethane	ND		25	ug/L
1,2-Dibromoethane (EDB)	ND		25	ug/L
1,3-Dichloropropane	ND		25	ug/L
Tetrachloroethene	ND		25	ug/L
Dibromochloromethane	ND		25	ug/L
Chlorobenzene	ND		25	ug/L
1,1,1,2-Tetrachloroethane	ND		25	ug/L
Ethylbenzene	ND		25	ug/L
Xylenes (total)	ND		25	ug/L
Styrene	ND		25	ug/L
Bromoform	ND		25	ug/L
1-Methylethylbenzene	ND		25	ug/L
1,1,2,2-Tetrachloroethane	ND		25	ug/L
1,2,3-Trichloropropane	ND		25	ug/L
n-Propyl benzene	ND		25	ug/L
Bromobenzene	ND		25	ug/L
1,3,5-Trimethylbenzene	ND		25	ug/L
2-Chlorotoluene	ND		25	ug/L
4-Chlorotoluene	ND		25	ug/L
tert-Butylbenzene	ND		25	ug/L
1,2,4-Trimethylbenzene	ND		25	ug/L

ND = Not Detected

Quanterra Environmental Services

(cont.)

Volatile Organic Compounds
Method 8260

Client Name:	Kennedy/Jenks Consultants		
Client ID:	WCC4S-16		
LAB ID:	121425-0007-SA		
Matrix:	WATER	Sampled: 19 SEP 96	Received: 20 SEP 96
Authorized:	20 SEP 96	Prepared: 03 OCT 96	Analyzed: 03 OCT 96
Instrument:	GC/MS-MD	Dilution: 25	

Parameter	Result	Qualifier	RL	Units
sec-Butylbenzene	ND		25	ug/L
Isopropyltoluene	ND		25	ug/L
1,3-Dichlorobenzene	ND		25	ug/L
1,4-Dichlorobenzene	ND		25	ug/L
n-Butylbenzene	ND		25	ug/L
1,2-Dichlorobenzene	ND		25	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		25	ug/L
1,2,4-Trichlorobenzene	ND		25	ug/L
Hexachlorobutadiene	ND		25	ug/L
Naphthalene	ND		25	ug/L
1,2,3-Trichlorobenzene	ND		25	ug/L
Acetone	ND		250	ug/L
2-Butanone	ND		250	ug/L
4-Methyl-2-pentanone	ND		250	ug/L
2-Hexanone	ND		250	ug/L
Carbon disulfide	ND		120	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	91	%	80 - 120
Toluene-d8	97	%	88 - 110
Bromofluorobenzene	93	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: WCC1S-16
LAB ID: 121425-0008-SA
Matrix: WATER
Authorized: 20 SEP 96
Instrument: GC/MS-MD

Sampled: 19 SEP 96
Prepared: 03 OCT 96
Dilution: 50

Received: 20 SEP 96
Analyzed: 03 OCT 96

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		50	ug/L
Chloromethane	ND		50	ug/L
Vinyl chloride	ND		50	ug/L
Bromomethane	ND		50	ug/L
Chloroethane	ND		50	ug/L
Trichlorofluoromethane	ND		50	ug/L
1,1-Dichloroethene	3200		50	ug/L
Methylene chloride	ND		50	ug/L
trans-1,2-Dichloroethene	63		50	ug/L
1,1-Dichloroethane	ND		50	ug/L
2,2-Dichloropropane	ND		50	ug/L
cis-1,2-Dichloroethene	ND		50	ug/L
Chloroform	ND		50	ug/L
Bromochloromethane	ND		50	ug/L
1,1,1-Trichloroethane	ND		50	ug/L
1,1-Dichloropropene	ND		50	ug/L
Carbon tetrachloride	ND		50	ug/L
1,2-Dichloroethane	ND		50	ug/L
Benzene	ND		50	ug/L
Trichloroethene	2400		50	ug/L
1,2-Dichloropropane	ND		50	ug/L
Bromodichloromethane	ND		50	ug/L
Dibromomethane	ND		50	ug/L
Toluene	ND		50	ug/L
1,1,2-Trichloroethane	ND		50	ug/L
1,2-Dibromoethane (EDB)	ND		50	ug/L
1,3-Dichloropropane	ND		50	ug/L
Tetrachloroethene	ND		50	ug/L
Dibromochloromethane	ND		50	ug/L
Chlorobenzene	ND		50	ug/L
1,1,1,2-Tetrachloroethane	ND		50	ug/L
Ethylbenzene	ND		50	ug/L
Xylenes (total)	ND		50	ug/L
Styrene	ND		50	ug/L
Bromoform	ND		50	ug/L
1-Methylethylbenzene	ND		50	ug/L
1,1,2,2-Tetrachloroethane	ND		50	ug/L
1,2,3-Trichloropropane	ND		50	ug/L
n-Propyl benzene	ND		50	ug/L
Bromobenzene	ND		50	ug/L
1,3,5-Trimethylbenzene	ND		50	ug/L
2-Chlorotoluene	ND		50	ug/L
4-Chlorotoluene	ND		50	ug/L
tert-Butylbenzene	ND		50	ug/L
1,2,4-Trimethylbenzene	ND		50	ug/L

ND = Not Detected

Quanterra Environmental Services

(cont.)

Volatile Organic Compounds
Method 8260

Client Name:	Kennedy/Jenks Consultants		
Client ID:	WCC1S-16		
LAB ID:	121425-0008-SA		
Matrix:	WATER	Sampled: 19 SEP 96	Received: 20 SEP 96
Authorized:	20 SEP 96	Prepared: 03 OCT 96	Analyzed: 03 OCT 96
Instrument:	GC/MS-MD	Dilution: 50	

Parameter	Result	Qualifier	RL	Units
sec-Butylbenzene	ND		50	ug/L
Isopropyltoluene	ND		50	ug/L
1,3-Dichlorobenzene	ND		50	ug/L
1,4-Dichlorobenzene	ND		50	ug/L
n-Butylbenzene	ND		50	ug/L
1,2-Dichlorobenzene	ND		50	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		50	ug/L
1,2,4-Trichlorobenzene	ND		50	ug/L
Hexachlorobutadiene	ND		50	ug/L
Naphthalene	ND		50	ug/L
1,2,3-Trichlorobenzene	ND		50	ug/L
Acetone	ND		500	ug/L
2-Butanone	ND		500	ug/L
4-Methyl-2-pentanone	ND		500	ug/L
2-Hexanone	ND		500	ug/L
Carbon disulfide	ND		250	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	92	%	80 - 120
Toluene-d8	99	%	88 - 110
Bromofluorobenzene	94	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: WCC3D-16
LAB ID: 121425-0009-SA
Matrix: WATER
Authorized: 20 SEP 96
Instrument: GC/MS-MD

Sampled: 19 SEP 96
Prepared: 03 OCT 96
Dilution: 1.0

Received: 20 SEP 96
Analyzed: 03 OCT 96

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		1.0	ug/L
Chloromethane	ND		1.0	ug/L
Vinyl chloride	ND		1.0	ug/L
Bromomethane	ND		1.0	ug/L
Chloroethane	ND		1.0	ug/L
Trichlorofluoromethane	ND		1.0	ug/L
1,1-Dichloroethene	52		1.0	ug/L
Methylene chloride	ND		1.0	ug/L
trans-1,2-Dichloroethene	ND		1.0	ug/L
1,1-Dichloroethane	ND		1.0	ug/L
2,2-Dichloropropane	ND		1.0	ug/L
cis-1,2-Dichloroethene	2.2		1.0	ug/L
Chloroform	ND		1.0	ug/L
Bromochloromethane	ND		1.0	ug/L
1,1,1-Trichloroethane	24		1.0	ug/L
1,1-Dichloropropene	ND		1.0	ug/L
Carbon tetrachloride	ND		1.0	ug/L
1,2-Dichloroethane	ND		1.0	ug/L
Benzene	ND		1.0	ug/L
Trichloroethene	61		1.0	ug/L
1,2-Dichloropropane	ND		1.0	ug/L
Bromodichloromethane	ND		1.0	ug/L
Dibromomethane	ND		1.0	ug/L
Toluene	12		1.0	ug/L
1,1,2-Trichloroethane	ND		1.0	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	ug/L
1,3-Dichloropropane	ND		1.0	ug/L
Tetrachloroethene	ND		1.0	ug/L
Dibromochloromethane	ND		1.0	ug/L
Chlorobenzene	ND		1.0	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L
Ethylbenzene	ND		1.0	ug/L
Xylenes (total)	ND		1.0	ug/L
Styrene	ND		1.0	ug/L
Bromoform	ND		1.0	ug/L
1-Methylethylbenzene	ND		1.0	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L
1,2,3-Trichloropropane	ND		1.0	ug/L
n-Propyl benzene	ND		1.0	ug/L
Bromobenzene	ND		1.0	ug/L
1,3,5-Trimethylbenzene	ND		1.0	ug/L
2-Chlorotoluene	ND		1.0	ug/L
4-Chlorotoluene	ND		1.0	ug/L
tert-Butylbenzene	ND		1.0	ug/L
1,2,4-Trimethylbenzene	ND		1.0	ug/L

ND = Not Detected

Quanterra Environmental Services

(cont.)

Volatile Organic Compounds
Method 8260

Client Name:	Kennedy/Jenks Consultants		
Client ID:	WCC3D-16		
LAB ID:	121425-0009-SA		
Matrix:	WATER	Sampled: 19 SEP 96	Received: 20 SEP 96
Authorized:	20 SEP 96	Prepared: 03 OCT 96	Analyzed: 03 OCT 96
Instrument:	GC/MS-MD	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
sec-Butylbenzene	ND		1.0	ug/L
Isopropyltoluene	ND		1.0	ug/L
1,3-Dichlorobenzene	ND		1.0	ug/L
1,4-Dichlorobenzene	ND		1.0	ug/L
n-Butylbenzene	ND		1.0	ug/L
1,2-Dichlorobenzene	ND		1.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	ug/L
1,2,4-Trichlorobenzene	ND		1.0	ug/L
Hexachlorobutadiene	ND		1.0	ug/L
Naphthalene	ND		1.0	ug/L
1,2,3-Trichlorobenzene	ND		1.0	ug/L
Acetone	ND		10	ug/L
2-Butanone	ND		10	ug/L
4-Methyl-2-pentanone	ND		10	ug/L
2-Hexanone	ND		10	ug/L
Carbon disulfide	ND		5.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	96	%	80 - 120
Toluene-d8	94	%	88 - 110
Bromofluorobenzene	104	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: WCC3S-16
LAB ID: 121425-0010-SA
Matrix: WATER
Authorized: 20 SEP 96
Instrument: GC/MS-MD

Sampled: 19 SEP 96
Prepared: 03 OCT 96
Dilution: 500

Received: 20 SEP 96
Analyzed: 03 OCT 96

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		500	ug/L
Chloromethane	ND		500	ug/L
Vinyl chloride	ND		500	ug/L
Bromomethane	ND		500	ug/L
Chloroethane	ND		500	ug/L
Trichlorofluoromethane	ND		500	ug/L
1,1-Dichloroethene	20000		500	ug/L
Methylene chloride	ND		500	ug/L
trans-1,2-Dichloroethene	860		500	ug/L
1,1-Dichloroethane	600		500	ug/L
2,2-Dichloropropane	ND		500	ug/L
cis-1,2-Dichloroethene	6300		500	ug/L
Chloroform	ND		500	ug/L
Bromochloromethane	ND		500	ug/L
1,1,1-Trichloroethane	3500		500	ug/L
1,1-Dichloropropene	ND		500	ug/L
Carbon tetrachloride	ND		500	ug/L
1,2-Dichloroethane	ND		500	ug/L
Benzene	ND		500	ug/L
Trichloroethene	ND		500	ug/L
1,2-Dichloropropane	ND		500	ug/L
Bromodichloromethane	ND		500	ug/L
Dibromomethane	ND		500	ug/L
Toluene	29000		500	ug/L
1,1,2-Trichloroethane	ND		500	ug/L
1,2-Dibromoethane (EDB)	ND		500	ug/L
1,3-Dichloropropane	ND		500	ug/L
Tetrachloroethene	ND		500	ug/L
Dibromochloromethane	ND		500	ug/L
Chlorobenzene	ND		500	ug/L
1,1,1,2-Tetrachloroethane	ND		500	ug/L
Ethylbenzene	ND		500	ug/L
Xylenes (total)	ND		500	ug/L
Styrene	ND		500	ug/L
Bromoform	ND		500	ug/L
1-Methylethylbenzene	ND		500	ug/L
1,1,2,2-Tetrachloroethane	ND		500	ug/L
1,2,3-Trichloropropane	ND		500	ug/L
n-Propyl benzene	ND		500	ug/L
Bromobenzene	ND		500	ug/L
1,3,5-Trimethylbenzene	ND		500	ug/L
2-Chlorotoluene	ND		500	ug/L
4-Chlorotoluene	ND		500	ug/L
tert-Butylbenzene	ND		500	ug/L
1,2,4-Trimethylbenzene	ND		500	ug/L

ND = Not Detected

Quanterra Environmental Services

(cont.)

Volatile Organic Compounds
Method 8260

Client Name:	Kennedy/Jenks Consultants		
Client ID:	WCC3S-16		
LAB ID:	121425-0010-SA		
Matrix:	WATER	Sampled: 19 SEP 96	Received: 20 SEP 96
Authorized:	20 SEP 96	Prepared: 03 OCT 96	Analyzed: 03 OCT 96
Instrument:	GC/MS-MD	Dilution: 500	

Parameter	Result	Qualifier	RL	Units
sec-Butylbenzene	ND		500	ug/L
Isopropyltoluene	ND		500	ug/L
1,3-Dichlorobenzene	ND		500	ug/L
1,4-Dichlorobenzene	ND		500	ug/L
n-Butylbenzene	ND		500	ug/L
1,2-Dichlorobenzene	ND		500	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		500	ug/L
1,2,4-Trichlorobenzene	ND		500	ug/L
Hexachlorobutadiene	ND		500	ug/L
Naphthalene	ND		500	ug/L
1,2,3-Trichlorobenzene	ND		500	ug/L
Acetone	ND		5000	ug/L
2-Butanone	ND		5000	ug/L
4-Methyl-2-pentanone	ND		5000	ug/L
2-Hexanone	ND		5000	ug/L
Carbon disulfide	ND		2500	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	95	%	80 - 120
Toluene-d8	102	%	88 - 110
Bromofluorobenzene	95	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: WCC6S-16
LAB ID: 121425-0011-SA
Matrix: WATER — Sampled: 19 SEP 96 — Received: 20 SEP 96
Authorized: 20 SEP 96 — Prepared: 03 OCT 96 — Analyzed: 03 OCT 96
Instrument: GC/MS-MD — Dilution: 250

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		250	ug/L
Chloromethane	ND		250	ug/L
Vinyl chloride	ND		250	ug/L
Bromomethane	ND		250	ug/L
Chloroethane	ND		250	ug/L
Trichlorofluoromethane	ND		250	ug/L
1,1-Dichloroethene	8800		250	ug/L
Methylene chloride	ND		250	ug/L
trans-1,2-Dichloroethene	250		250	ug/L
1,1-Dichloroethane	ND		250	ug/L
2,2-Dichloropropane	ND		250	ug/L
cis-1,2-Dichloroethene	1800		250	ug/L
Chloroform	ND		250	ug/L
Bromochloromethane	ND		250	ug/L
1,1,1-Trichloroethane	890		250	ug/L
1,1-Dichloropropene	ND		250	ug/L
Carbon tetrachloride	ND		250	ug/L
1,2-Dichloroethane	ND		250	ug/L
Benzene	ND		250	ug/L
Trichloroethene	2000		250	ug/L
1,2-Dichloropropane	ND		250	ug/L
Bromodichloromethane	ND		250	ug/L
Dibromomethane	ND		250	ug/L
Toluene	4000		250	ug/L
1,1,2-Trichloroethane	ND		250	ug/L
1,2-Dibromoethane (EDB)	ND		250	ug/L
1,3-Dichloropropane	ND		250	ug/L
Tetrachloroethene	ND		250	ug/L
Dibromochloromethane	ND		250	ug/L
Chlorobenzene	ND		250	ug/L
1,1,1,2-Tetrachloroethane	ND		250	ug/L
Ethylbenzene	ND		250	ug/L
Xylenes (total)	ND		250	ug/L
Styrene	ND		250	ug/L
Bromoform	ND		250	ug/L
1-Methylethylbenzene	ND		250	ug/L
1,1,2,2-Tetrachloroethane	ND		250	ug/L
1,2,3-Trichloropropane	ND		250	ug/L
n-Propyl benzene	ND		250	ug/L
Bromobenzene	ND		250	ug/L
1,3,5-Trimethylbenzene	ND		250	ug/L
2-Chlorotoluene	ND		250	ug/L
4-Chlorotoluene	ND		250	ug/L
tert-Butylbenzene	ND		250	ug/L
1,2,4-Trimethylbenzene	ND		250	ug/L

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Kennedy/Jenks Consultants
Client ID: WCC6S-16
LAB ID: 121425-0011-SA
Matrix: WATER Sampled: 19 SEP 96 Received: 20 SEP 96
Authorized: 20 SEP 96 Prepared: 03 OCT 96 Analyzed: 03 OCT 96
Instrument: GC/MS-MD Dilution: 250

Parameter	Result	Qualifier	RL	Units
sec-Butylbenzene	ND		250	ug/L
Isopropyltoluene	ND		250	ug/L
1,3-Dichlorobenzene	ND		250	ug/L
1,4-Dichlorobenzene	ND		250	ug/L
n-Butylbenzene	ND		250	ug/L
1,2-Dichlorobenzene	ND		250	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		250	ug/L
1,2,4-Trichlorobenzene	ND		250	ug/L
Hexachlorobutadiene	ND		250	ug/L
Naphthalene	ND		250	ug/L
1,2,3-Trichlorobenzene	ND		250	ug/L
Acetone	ND		2500	ug/L
2-Butanone	ND		2500	ug/L
4-Methyl-2-pentanone	ND		2500	ug/L
2-Hexanone	ND		2500	ug/L
Carbon disulfide	ND		1200	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	92	%	80 - 120
Toluene-d8	99	%	88 - 110
Bromofluorobenzene	94	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: DACP1-16
LAB ID: 121425-0012-SA
Matrix: WATER Sampled: 19 SEP 96 Received: 20 SEP 96
Authorized: 20 SEP 96 Prepared: 03 OCT 96 Analyzed: 03 OCT 96
Instrument: GC/MS-MD Dilution: 250

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		250	ug/L
Chloromethane	ND		250	ug/L
Vinyl chloride	ND		250	ug/L
Bromomethane	ND		250	ug/L
Chloroethane	ND		250	ug/L
Trichlorofluoromethane	ND		250	ug/L
1,1-Dichloroethene	350		250	ug/L
Methylene chloride	ND		250	ug/L
trans-1,2-Dichloroethene	ND		250	ug/L
1,1-Dichloroethane	ND		250	ug/L
2,2-Dichloropropane	ND		250	ug/L
cis-1,2-Dichloroethene	ND		250	ug/L
Chloroform	ND		250	ug/L
Bromochloromethane	ND		250	ug/L
1,1,1-Trichloroethane	ND		250	ug/L
1,1-Dichloropropene	ND		250	ug/L
Carbon tetrachloride	ND		250	ug/L
1,2-Dichloroethane	ND		250	ug/L
Benzene	ND		250	ug/L
Trichloroethene	15000		250	ug/L
1,2-Dichloropropane	ND		250	ug/L
Bromodichloromethane	ND		250	ug/L
Dibromomethane	ND		250	ug/L
Toluene	740		250	ug/L
1,1,2-Trichloroethane	ND		250	ug/L
1,2-Dibromoethane (EDB)	ND		250	ug/L
1,3-Dichloropropane	ND		250	ug/L
Tetrachloroethene	ND		250	ug/L
Dibromochloromethane	ND		250	ug/L
Chlorobenzene	ND		250	ug/L
1,1,1,2-Tetrachloroethane	ND		250	ug/L
Ethylbenzene	ND		250	ug/L
Xylenes (total)	ND		250	ug/L
Styrene	ND		250	ug/L
Bromoform	ND		250	ug/L
1-Methylethylbenzene	ND		250	ug/L
1,1,2,2-Tetrachloroethane	ND		250	ug/L
1,2,3-Trichloropropane	ND		250	ug/L
n-Propyl benzene	ND		250	ug/L
Bromobenzene	ND		250	ug/L
1,3,5-Trimethylbenzene	ND		250	ug/L
2-Chlorotoluene	ND		250	ug/L
4-Chlorotoluene	ND		250	ug/L
tert-Butylbenzene	ND		250	ug/L
1,2,4-Trimethylbenzene	ND		250	ug/L

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Kennedy/Jenks Consultants
Client ID: DACP1-16
LAB ID: 121425-0012-SA
Matrix: WATER — Sampled: 19 SEP 96 — Received: 20 SEP 96
Authorized: 20 SEP 96 — Prepared: 03 OCT 96 — Analyzed: 03 OCT 96
Instrument: GC/MS-MD — Dilution: 250

Parameter	Result	Qualifier	RL	Units
sec-Butylbenzene	ND		250	ug/L
Isopropyltoluene	ND		250	ug/L
1,3-Dichlorobenzene	ND		250	ug/L
1,4-Dichlorobenzene	ND		250	ug/L
n-Butylbenzene	ND		250	ug/L
1,2-Dichlorobenzene	ND		250	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		250	ug/L
1,2,4-Trichlorobenzene	ND		250	ug/L
Hexachlorobutadiene	ND		250	ug/L
Naphthalene	ND		250	ug/L
1,2,3-Trichlorobenzene	ND		250	ug/L
Acetone	ND		2500	ug/L
2-Butanone	ND		2500	ug/L
4-Methyl-2-pentanone	ND		2500	ug/L
2-Hexanone	ND		2500	ug/L
Carbon disulfide	ND		1200	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	95	%	80 - 120
Toluene-d8	103	%	88 - 110
Bromofluorobenzene	97	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: EB-091996
LAB ID: 121425-0013-EB
Matrix: WATER-QA
Authorized: 20 SEP 96
Instrument: GC/MS-MD

Sampled: 19 SEP 96
Prepared: 03 OCT 96
Dilution: 1.0

Received: 20 SEP 96
Analyzed: 03 OCT 96

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		1.0	ug/L
Chloromethane	ND		1.0	ug/L
Vinyl chloride	ND		1.0	ug/L
Bromomethane	ND		1.0	ug/L
Chloroethane	ND		1.0	ug/L
Trichlorofluoromethane	ND		1.0	ug/L
1,1-Dichloroethene	ND		1.0	ug/L
Methylene chloride	ND		1.0	ug/L
trans-1,2-Dichloroethene	ND		1.0	ug/L
1,1-Dichloroethane	ND		1.0	ug/L
2,2-Dichloropropane	ND		1.0	ug/L
cis-1,2-Dichloroethene	ND		1.0	ug/L
Chloroform	ND		1.0	ug/L
Bromochloromethane	ND		1.0	ug/L
1,1,1-Trichloroethane	ND		1.0	ug/L
1,1-Dichloropropene	ND		1.0	ug/L
Carbon tetrachloride	ND		1.0	ug/L
1,2-Dichloroethane	ND		1.0	ug/L
Benzene	ND		1.0	ug/L
Trichloroethene	ND		1.0	ug/L
1,2-Dichloropropane	ND		1.0	ug/L
Bromodichloromethane	ND		1.0	ug/L
Dibromomethane	ND		1.0	ug/L
Toluene	ND		1.0	ug/L
1,1,2-Trichloroethane	ND		1.0	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	ug/L
1,3-Dichloropropane	ND		1.0	ug/L
Tetrachloroethene	ND		1.0	ug/L
Dibromochloromethane	ND		1.0	ug/L
Chlorobenzene	ND		1.0	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L
Ethylbenzene	ND		1.0	ug/L
Xylenes (total)	ND		1.0	ug/L
Styrene	ND		1.0	ug/L
Bromoform	ND		1.0	ug/L
1-Methylethylbenzene	ND		1.0	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L
1,2,3-Trichloropropane	ND		1.0	ug/L
n-Propyl benzene	ND		1.0	ug/L
Bromobenzene	ND		1.0	ug/L
1,3,5-Trimethylbenzene	ND		1.0	ug/L
2-Chlorotoluene	ND		1.0	ug/L
4-Chlorotoluene	ND		1.0	ug/L
tert-Butylbenzene	ND		1.0	ug/L
1,2,4-Trimethylbenzene	ND		1.0	ug/L

ND = Not Detected

Quanterra Environmental Services

(cont.)

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: EB-091996
LAB ID: 121425-0013-EB
Matrix: WATER-QA
Authorized: 20 SEP 96
Instrument: GC/MS-MD

Sampled: 19 SEP 96
Prepared: 03 OCT 96
Dilution: 1.0

Received: 20 SEP 96
Analyzed: 03 OCT 96

Parameter	Result	Qualifier	RL	Units
sec-Butylbenzene	ND		1.0	ug/L
Isopropyltoluene	ND		1.0	ug/L
1,3-Dichlorobenzene	ND		1.0	ug/L
1,4-Dichlorobenzene	ND		1.0	ug/L
n-Butylbenzene	ND		1.0	ug/L
1,2-Dichlorobenzene	ND		1.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	ug/L
1,2,4-Trichlorobenzene	ND		1.0	ug/L
Hexachlorobutadiene	ND		1.0	ug/L
Naphthalene	ND		1.0	ug/L
1,2,3-Trichlorobenzene	ND		1.0	ug/L
Acetone	ND		10	ug/L
2-Butanone	ND		10	ug/L
4-Methyl-2-pentanone	ND		10	ug/L
2-Hexanone	ND		10	ug/L
Carbon disulfide	ND		5.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	93	%	80 - 120
Toluene-d8	95	%	88 - 110
Bromofluorobenzene	104	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: DW-091996
LAB ID: 121425-0014-SA
Matrix: WATER
Authorized: 20 SEP 96
Instrument: GC/MS-MD

Sampled: 19 SEP 96
Prepared: 03 OCT 96
Dilution: 100

Received: 20 SEP 96
Analyzed: 03 OCT 96

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		100	ug/L
Chloromethane	ND		100	ug/L
Vinyl chloride	ND		100	ug/L
Bromomethane	ND		100	ug/L
Chloroethane	ND		100	ug/L
Trichlorofluoromethane	ND		100	ug/L
1,1-Dichloroethene	8800		100	ug/L
Methylene chloride	ND		100	ug/L
trans-1,2-Dichloroethene	160		100	ug/L
1,1-Dichloroethane	110		100	ug/L
2,2-Dichloropropane	ND		100	ug/L
cis-1,2-Dichloroethene	1800		100	ug/L
Chloroform	ND		100	ug/L
Bromochloromethane	ND		100	ug/L
1,1,1-Trichloroethane	950		100	ug/L
1,1-Dichloropropene	ND		100	ug/L
Carbon tetrachloride	ND		100	ug/L
1,2-Dichloroethane	ND		100	ug/L
Benzene	ND		100	ug/L
Trichloroethene	2200		100	ug/L
1,2-Dichloropropane	ND		100	ug/L
Bromodichloromethane	ND		100	ug/L
Dibromomethane	ND		100	ug/L
Toluene	4300		100	ug/L
1,1,2-Trichloroethane	ND		100	ug/L
1,2-Dibromoethane (EDB)	ND		100	ug/L
1,3-Dichloropropane	ND		100	ug/L
Tetrachloroethene	ND		100	ug/L
Dibromochloromethane	ND		100	ug/L
Chlorobenzene	ND		100	ug/L
1,1,1,2-Tetrachloroethane	ND		100	ug/L
Ethylbenzene	ND		100	ug/L
Xylenes (total)	ND		100	ug/L
Styrene	ND		100	ug/L
Bromoform	ND		100	ug/L
1-Methylethylbenzene	ND		100	ug/L
1,1,2,2-Tetrachloroethane	ND		100	ug/L
1,2,3-Trichloropropane	ND		100	ug/L
n-Propyl benzene	ND		100	ug/L
Bromobenzene	ND		100	ug/L
1,3,5-Trimethylbenzene	ND		100	ug/L
2-Chlorotoluene	ND		100	ug/L
4-Chlorotoluene	ND		100	ug/L
tert-Butylbenzene	ND		100	ug/L
1,2,4-Trimethylbenzene	ND		100	ug/L

ND = Not Detected

Quanterra Environmental Services

(cont.)

Volatile Organic Compounds
Method 8260

Client Name:	Kennedy/Jenks Consultants		
Client ID:	DW-091996		
LAB ID:	121425-0014-SA		
Matrix:	WATER	Sampled: 19 SEP 96	Received: 20 SEP 96
Authorized:	20 SEP 96	Prepared: 03 OCT 96	Analyzed: 03 OCT 96
Instrument:	GC/MS-MD	Dilution: 100	

Parameter	Result	Qualifier	RL	Units
sec-Butylbenzene	ND		100	ug/L
Isopropyltoluene	ND		100	ug/L
1,3-Dichlorobenzene	ND		100	ug/L
1,4-Dichlorobenzene	ND		100	ug/L
n-Butylbenzene	ND		100	ug/L
1,2-Dichlorobenzene	ND		100	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		100	ug/L
1,2,4-Trichlorobenzene	ND		100	ug/L
Hexachlorobutadiene	ND		100	ug/L
Naphthalene	ND		100	ug/L
1,2,3-Trichlorobenzene	ND		100	ug/L
Acetone	ND		1000	ug/L
2-Butanone	ND		1000	ug/L
4-Methyl-2-pentanone	ND		1000	ug/L
2-Hexanone	ND		1000	ug/L
Carbon disulfide	ND		500	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	93	%	80 - 120
Toluene-d8	102	%	88 - 110
Bromofluorobenzene	93	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: TB-091996
LAB ID: 121425-0015-TB
Matrix: WATER-QA
Authorized: 20 SEP 96
Instrument: GC/MS-MD

Sampled: 19 SEP 96
Prepared: 03 OCT 96
Dilution: 1.0

Received: 20 SEP 96
Analyzed: 03 OCT 96

Parameter	Result	Qualifier	RL	Units
Dichlorodifluoromethane	ND		1.0	ug/L
Chloromethane	ND		1.0	ug/L
Vinyl chloride	ND		1.0	ug/L
Bromomethane	ND		1.0	ug/L
Chloroethane	ND		1.0	ug/L
Trichlorofluoromethane	ND		1.0	ug/L
1,1-Dichloroethene	ND		1.0	ug/L
Methylene chloride	ND		1.0	ug/L
trans-1,2-Dichloroethene	ND		1.0	ug/L
1,1-Dichloroethane	ND		1.0	ug/L
2,2-Dichloropropane	ND		1.0	ug/L
cis-1,2-Dichloroethene	ND		1.0	ug/L
Chloroform	ND		1.0	ug/L
Bromochloromethane	ND		1.0	ug/L
1,1,1-Trichloroethane	ND		1.0	ug/L
1,1-Dichloropropene	ND		1.0	ug/L
Carbon tetrachloride	ND		1.0	ug/L
1,2-Dichloroethane	ND		1.0	ug/L
Benzene	ND		1.0	ug/L
Trichloroethene	ND		1.0	ug/L
1,2-Dichloropropane	ND		1.0	ug/L
Bromodichloromethane	ND		1.0	ug/L
Dibromomethane	ND		1.0	ug/L
Toluene	ND		1.0	ug/L
1,1,2-Trichloroethane	ND		1.0	ug/L
1,2-Dibromoethane (EDB)	ND		1.0	ug/L
1,3-Dichloropropane	ND		1.0	ug/L
Tetrachloroethene	ND		1.0	ug/L
Dibromochloromethane	ND		1.0	ug/L
Chlorobenzene	ND		1.0	ug/L
1,1,1,2-Tetrachloroethane	ND		1.0	ug/L
Ethylbenzene	ND		1.0	ug/L
Xylenes (total)	ND		1.0	ug/L
Styrene	ND		1.0	ug/L
Bromoform	ND		1.0	ug/L
1-Methylethylbenzene	ND		1.0	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L
1,2,3-Trichloropropane	ND		1.0	ug/L
n-Propyl benzene	ND		1.0	ug/L
Bromobenzene	ND		1.0	ug/L
1,3,5-Trimethylbenzene	ND		1.0	ug/L
2-Chlorotoluene	ND		1.0	ug/L
4-Chlorotoluene	ND		1.0	ug/L
tert-Butylbenzene	ND		1.0	ug/L
1,2,4-Trimethylbenzene	ND		1.0	ug/L

ND = Not Detected

Quanterra Environmental Services

(cont.)

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: TB-091996
LAB ID: 121425-0015-TB
Matrix: WATER-QA
Authorized: 20 SEP 96
Instrument: GC/MS-MD

Sampled: 19 SEP 96
Prepared: 03 OCT 96
Dilution: 1.0

Received: 20 SEP 96
Analyzed: 03 OCT 96

Parameter	Result	Qualifier	RL	Units
sec-Butylbenzene	ND		1.0	ug/L
Isopropyltoluene	ND		1.0	ug/L
1,3-Dichlorobenzene	ND		1.0	ug/L
1,4-Dichlorobenzene	ND		1.0	ug/L
n-Butylbenzene	ND		1.0	ug/L
1,2-Dichlorobenzene	ND		1.0	ug/L
1,2-Dibromo-3-chloro-propane (DBCP)	ND		1.0	ug/L
1,2,4-Trichlorobenzene	ND		1.0	ug/L
Hexachlorobutadiene	ND		1.0	ug/L
Naphthalene	ND		1.0	ug/L
1,2,3-Trichlorobenzene	ND		1.0	ug/L
Acetone	ND		10	ug/L
2-Butanone	ND		10	ug/L
4-Methyl-2-pentanone	ND		10	ug/L
2-Hexanone	ND		10	ug/L
Carbon disulfide	ND		5.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	94	%	80 - 120
Toluene-d8	93	%	88 - 110
Bromofluorobenzene	105	%	86 - 115

ND = Not Detected

APPENDIX B

LABORATORY/FIELD QUALITY CONTROL DATA SHEETS

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Volatile Organics by GC/MS

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
121378-0001-SA	AQUEOUS	8260-A		24 SEP 96-BDX	24 SEP 96-BD
121378-0002-SA	AQUEOUS	8260-A		24 SEP 96-BDX	24 SEP 96-BD
121378-0003-SA	AQUEOUS	8260-A		24 SEP 96-BDX	24 SEP 96-BD
121378-0004-SA	AQUEOUS	8260-A		24 SEP 96-BDX	24 SEP 96-BD
121378-0005-SA	AQUEOUS	8260-A		24 SEP 96-BDX	24 SEP 96-BD

Quanterra Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121378

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
Date Analyzed: 24 SEP 96
QC Run: 24 SEP 96-BDX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	9.78	98	64-124
Benzene	10.0	9.59	96	67-127
Trichloroethene	10.0	9.44	94	60-120
Toluene	10.0	9.63	96	72-132
Chlorobenzene	10.0	7.50	75	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	10.7	107	80-120
Toluene-d8	10.0	10.4	104	88-110
Bromofluorobenzene	10.0	10.1	101	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Volatile Organics by GC/MS
Project: 121378

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
Sample: 121378-0001
MS Run: 24 SEP 96-BD
Units: ug/L

Analyte	Concentration Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
1,1-Dichloroethene	10.4	17.9	19.9	10.0	75	95	24	64-124	25
Benzene	ND	9.65	9.64	10.0	96	96	0.1	67-127	25
Trichloroethene	3.10	12.4	13.3	10.0	93	102	9.2	60-120	25
Toluene	ND	9.72	9.92	10.0	97	99	2.0	72-132	25
Chlorobenzene	ND	10.1	10.3	10.0	101	103	2.0	68-128	25

Surrogates	Sample %Recovery	%Recovery MS	%Recovery MSD	Acceptance Limit Recovery
1,2-Dichloroethane-d4	104	106	104	80-120
Toluene-d8	101	103	101	88-110
Bromofluorobenzene	97	98	97	86-115

N = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

SINGLE CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121378

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 24 SEP 96-BDX Date Analyzed: 24 SEP 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	10.1	101	80-120
Toluene-d8	10.0	10.3	103	88-110
Bromofluorobenzene	10.0	9.96	100	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121378

Test: 8260-A
Matrix: AQUEOUS
QC Run: 24 SEP 96-BDX

Method 8260 - Volatile Organics

Date Analyzed: 24 SEP 96

Analyte	Result	Units	Reporting Limit
Dichlorodifluoromethane	ND	ug/L	1.0
Chloromethane	ND	ug/L	1.0
Vinyl chloride	ND	ug/L	1.0
Bromomethane	ND	ug/L	1.0
Chloroethane	ND	ug/L	1.0
Trichlorofluoromethane	ND	ug/L	1.0
1,1-Dichloroethene	ND	ug/L	1.0
Methylene chloride	ND	ug/L	1.0
trans-1,2-Dichloroethene	ND	ug/L	1.0
1,1-Dichloroethane	ND	ug/L	1.0
2,2-Dichloropropane	ND	ug/L	1.0
cis-1,2-Dichloroethene	ND	ug/L	1.0
Chloroform	ND	ug/L	1.0
Bromochloromethane	ND	ug/L	1.0
1,1,1-Trichloroethane	ND	ug/L	1.0
1,1-Dichloropropene	ND	ug/L	1.0
Carbon tetrachloride	ND	ug/L	1.0
1,2-Dichloroethane	ND	ug/L	1.0
Benzene	ND	ug/L	1.0
Trichloroethene	ND	ug/L	1.0
1,2-Dichloropropane	ND	ug/L	1.0
Bromodichloromethane	ND	ug/L	1.0
Dibromomethane	ND	ug/L	1.0
Toluene	ND	ug/L	1.0
1,1,2-Trichloroethane	ND	ug/L	1.0
1,2-Dibromoethane (EDB)	ND	ug/L	1.0
1,3-Dichloropropane	ND	ug/L	1.0
Tetrachloroethene	ND	ug/L	1.0
Dibromochloromethane	ND	ug/L	1.0
Chlorobenzene	ND	ug/L	1.0
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0
Ethylbenzene	ND	ug/L	1.0
Xylenes (total)	ND	ug/L	1.0
Styrene	ND	ug/L	1.0
Bromoform	ND	ug/L	1.0
1-Methylethylbenzene	ND	ug/L	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0
1,2,3-Trichloropropane	ND	ug/L	1.0
n-Propyl benzene	ND	ug/L	1.0
Bromobenzene	ND	ug/L	1.0
1,3,5-Trimethylbenzene	ND	ug/L	1.0
2-Chlorotoluene	ND	ug/L	1.0
4-Chlorotoluene	ND	ug/L	1.0
tert-Butylbenzene	ND	ug/L	1.0

ND = Not Detected

Quanterra Environmental Services

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 121378

Test: 8260-A
Matrix: AQUEOUS
QC Run: 24 SEP 96-BDX

Method 8260 - Volatile Organics (cont.)

Date Analyzed: 24 SEP 96

Analyte	Result	Units	Reporting Limit
1,2,4-Trimethylbenzene	ND	ug/L	1.0
sec-Butylbenzene	ND	ug/L	1.0
Isopropyltoluene	ND	ug/L	1.0
1,3-Dichlorobenzene	ND	ug/L	1.0
1,4-Dichlorobenzene	ND	ug/L	1.0
n-Butylbenzene	ND	ug/L	1.0
1,2-Dichlorobenzene	ND	ug/L	1.0
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0
1,2,4-Trichlorobenzene	ND	ug/L	1.0
Hexachlorobutadiene	ND	ug/L	1.0
Naphthalene	ND	ug/L	1.0
1,2,3-Trichlorobenzene	ND	ug/L	1.0
Acetone	ND	ug/L	10
2-Butanone	ND	ug/L	10
4-Methyl-2-pentanone	ND	ug/L	10
2-Hexanone	ND	ug/L	10
Carbon disulfide	ND	ug/L	5.0

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Volatile Organics by GC/MS

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
121425-0001-SA	AQUEOUS	8260-A		02 OCT 96-ACX	03 OCT 96-AD
121425-0002-SA	AQUEOUS	8260-A		30 SEP 96-BDX	03 OCT 96-AD
121425-0003-SA	AQUEOUS	8260-A		03 OCT 96-ADX	03 OCT 96-AD
121425-0004-SA	AQUEOUS	8260-A		02 OCT 96-ACX	03 OCT 96-AD
121425-0005-SA	AQUEOUS	8260-A		02 OCT 96-ACX	03 OCT 96-AD
121425-0006-SA	AQUEOUS	8260-A		03 OCT 96-ADX	03 OCT 96-AD
121425-0007-SA	AQUEOUS	8260-A		03 OCT 96-ADX	03 OCT 96-AD
121425-0008-SA	AQUEOUS	8260-A		03 OCT 96-ADX	03 OCT 96-AD
121425-0009-SA	AQUEOUS	8260-A		03 OCT 96-ADX	03 OCT 96-AD
121425-0010-SA	AQUEOUS	8260-A		03 OCT 96-ADX	03 OCT 96-AD
121425-0011-SA	AQUEOUS	8260-A		03 OCT 96-ADX	03 OCT 96-AD
121425-0012-SA	AQUEOUS	8260-A		03 OCT 96-ADX	03 OCT 96-AD
121425-0013-EB	AQUEOUS	8260-A		03 OCT 96-ADX	03 OCT 96-AD
121425-0014-SA	AQUEOUS	8260-A		03 OCT 96-ADX	03 OCT 96-AD
121425-0015-TB	AQUEOUS	8260-A		03 OCT 96-ADX	03 OCT 96-AD

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121425

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 03 OCT 96-ADX
Concentration Units: ug/L
Date Analyzed: 03 OCT 96

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	8.57	86	64-124
Benzene	10.0	8.43	84	67-127
Trichloroethene	10.0	8.97	90	60-120
Toluene	10.0	8.65	86	72-132
Chlorobenzene	10.0	7.24	72	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	10.2	102	80-120
Toluene-d8	10.0	9.35	94	88-110
Bromofluorobenzene	10.0	11.0	110	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 02 OCT 96-ACX
Concentration Units: ug/L
Date Analyzed: 02 OCT 96

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	9.63	96	64-124
Benzene	10.0	8.42	84	67-127
Trichloroethene	10.0	9.41	94	60-120
Toluene	10.0	8.96	90	72-132
Chlorobenzene	10.0	9.37	94	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.96	100	80-120
Toluene-d8	10.0	9.10	91	88-110
Bromofluorobenzene	10.0	9.50	95	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 30 SEP 96-BDX
Concentration Units: ug/L
Date Analyzed: 30 SEP 96

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	10.8	108	64-124
Benzene	10.0	10.3	103	67-127
Trichloroethene	10.0	10.0	100	60-120
Toluene	10.0	10.3	103	72-132
Chlorobenzene	10.0	8.04	80	68-128

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121425

(cont.)

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.40	94	80-120
Toluene-d8	10.0	9.78	98	88-110
Bromofluorobenzene	10.0	9.59	96	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Volatile Organics by GC/MS
Project: 121425

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
Sample: 121425-0003
MS Run: 03 OCT 96-AD
Units: ug/L

Analyte	Concentration Sample Result	MS Result	MSD Result	Amount Spiked MS/MSD	%Recovery MS	MSD	%RPD	Acceptance Limit Recov.	RPD
1,1-Dichloroethene	22.0	67.9	62.2	50.0	92	80	13	64-124	25
Benzene	ND	44.8	42.1	50.0	90	84	6.2	67-127	25
Trichloroethene	150	208	196	50.0	116	92	23	60-120	25
Toluene	ND	44.9	43.2	50.0	90	86	3.9	72-132	25
Chlorobenzene	ND	50.8	49.3	50.0	102	99	3.0	68-128	25

Surrogates	Sample %Recovery	%Recovery MS	MSD	Acceptance Limit Recovery
1,2-Dichloroethane-d4	99	99	96	80-120
Toluene-d8	95	95	92	88-110
Bromofluorobenzene	106	105	103	86-115

ND = Not Detected

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

SINGLE CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 121425

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 03 OCT 96-ADX
Concentration Units: ug/L

Date Analyzed: 03 OCT 96

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.59	96	80-120
Toluene-d8	10.0	9.34	93	88-110
Bromofluorobenzene	10.0	10.6	106	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 02 OCT 96-ACX
Concentration Units: ug/L

Date Analyzed: 02 OCT 96

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.29	93	80-120
Toluene-d8	10.0	9.15	92	88-110
Bromofluorobenzene	10.0	9.25	92	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 30 SEP 96-BDX
Concentration Units: ug/L

Date Analyzed: 30 SEP 96

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.34	93	80-120
Toluene-d8	10.0	9.98	100	88-110
Bromofluorobenzene	10.0	9.70	97	86-115

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 121425

Test: 8260-A
Matrix: AQUEOUS
QC Run: 02 OCT 96-ACX

Method 8260 - Volatile Organics

Date Analyzed: 02 OCT 96

Analyte	Result	Units	Reporting Limit
Dichlorodifluoromethane	ND	ug/L	1.0
Chloromethane	ND	ug/L	1.0
Vinyl chloride	ND	ug/L	1.0
Bromomethane	ND	ug/L	1.0
Chloroethane	ND	ug/L	1.0
Trichlorofluoromethane	ND	ug/L	1.0
1,1-Dichloroethene	ND	ug/L	1.0
Methylene chloride	ND	ug/L	1.0
trans-1,2-Dichloroethene	ND	ug/L	1.0
1,1-Dichloroethane	ND	ug/L	1.0
2,2-Dichloropropane	ND	ug/L	1.0
cis-1,2-Dichloroethene	ND	ug/L	1.0
Chloroform	ND	ug/L	1.0
Bromochloromethane	ND	ug/L	1.0
1,1,1-Trichloroethane	ND	ug/L	1.0
1,1-Dichloropropene	ND	ug/L	1.0
Carbon tetrachloride	ND	ug/L	1.0
1,2-Dichloroethane	ND	ug/L	1.0
Benzene	ND	ug/L	1.0
Trichloroethene	ND	ug/L	1.0
1,2-Dichloropropane	ND	ug/L	1.0
Bromodichloromethane	ND	ug/L	1.0
Dibromomethane	ND	ug/L	1.0
Toluene	ND	ug/L	1.0
1,1,2-Trichloroethane	ND	ug/L	1.0
1,2-Dibromoethane (EDB)	ND	ug/L	1.0
1,3-Dichloropropane	ND	ug/L	1.0
Tetrachloroethene	ND	ug/L	1.0
Dibromochloromethane	ND	ug/L	1.0
Chlorobenzene	ND	ug/L	1.0
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0
Ethylbenzene	ND	ug/L	1.0
Xylenes (total)	ND	ug/L	1.0
Styrene	ND	ug/L	1.0
Bromoform	ND	ug/L	1.0
1-Methylethylbenzene	ND	ug/L	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0
1,2,3-Trichloropropane	ND	ug/L	1.0
n-Propyl benzene	ND	ug/L	1.0
Bromobenzene	ND	ug/L	1.0
1,3,5-Trimethylbenzene	ND	ug/L	1.0
2-Chlorotoluene	ND	ug/L	1.0
4-Chlorotoluene	ND	ug/L	1.0
tert-Butylbenzene	ND	ug/L	1.0

ND = Not Detected

Quanterra Environmental Services

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 121425

Test: 8260-A
Matrix: AQUEOUS
QC Run: 02 OCT 96-ACX

Method 8260 - Volatile Organics (cont.)

Date Analyzed: 02 OCT 96

Analyte	Result	Units	Reporting Limit
1,2,4-Trimethylbenzene	ND	ug/L	1.0
sec-Butylbenzene	ND	ug/L	1.0
Isopropyltoluene	ND	ug/L	1.0
1,3-Dichlorobenzene	ND	ug/L	1.0
1,4-Dichlorobenzene	ND	ug/L	1.0
n-Butylbenzene	ND	ug/L	1.0
1,2-Dichlorobenzene	ND	ug/L	1.0
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0
1,2,4-Trichlorobenzene	ND	ug/L	1.0
Hexachlorobutadiene	ND	ug/L	1.0
Naphthalene	ND	ug/L	1.0
1,2,3-Trichlorobenzene	ND	ug/L	1.0
Acetone	ND	ug/L	10
2-Butanone	ND	ug/L	10
4-Methyl-2-pentanone	ND	ug/L	10
2-Hexanone	ND	ug/L	10
Carbon disulfide	ND	ug/L	5.0

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 121425

Test: 8260-A
Matrix: AQUEOUS
QC Run: 30 SEP 96-BDX

Method 8260 - Volatile Organics

Date Analyzed: 30 SEP 96

Analyte	Result	Units	Reporting Limit
Dichlorodifluoromethane	ND	ug/L	1.0
Chloromethane	ND	ug/L	1.0
Vinyl chloride	ND	ug/L	1.0
Bromomethane	ND	ug/L	1.0
Chloroethane	ND	ug/L	1.0
Trichlorofluoromethane	ND	ug/L	1.0
1,1-Dichloroethene	ND	ug/L	1.0
Methylene chloride	ND	ug/L	1.0
trans-1,2-Dichloroethene	ND	ug/L	1.0
1,1-Dichloroethane	ND	ug/L	1.0
2,2-Dichloropropane	ND	ug/L	1.0
cis-1,2-Dichloroethene	ND	ug/L	1.0
Chloroform	ND	ug/L	1.0
Bromochloromethane	ND	ug/L	1.0
1,1,1-Trichloroethane	ND	ug/L	1.0
1,1-Dichloropropene	ND	ug/L	1.0
Carbon tetrachloride	ND	ug/L	1.0
1,2-Dichloroethane	ND	ug/L	1.0
Benzene	ND	ug/L	1.0
Trichloroethene	ND	ug/L	1.0
1,2-Dichloropropane	ND	ug/L	1.0
Bromodichloromethane	ND	ug/L	1.0
Dibromomethane	ND	ug/L	1.0
Toluene	ND	ug/L	1.0
1,1,2-Trichloroethane	ND	ug/L	1.0
1,2-Dibromoethane (EDB)	ND	ug/L	1.0
1,3-Dichloropropane	ND	ug/L	1.0
Tetrachloroethene	ND	ug/L	1.0
Dibromochloromethane	ND	ug/L	1.0
Chlorobenzene	ND	ug/L	1.0
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0
Ethylbenzene	ND	ug/L	1.0
Xylenes (total)	ND	ug/L	1.0
Styrene	ND	ug/L	1.0
Bromoform	ND	ug/L	1.0
1-Methylethylbenzene	ND	ug/L	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0
1,2,3-Trichloropropane	ND	ug/L	1.0
n-Propyl benzene	ND	ug/L	1.0
Bromobenzene	ND	ug/L	1.0
1,3,5-Trimethylbenzene	ND	ug/L	1.0
2-Chlorotoluene	ND	ug/L	1.0
4-Chlorotoluene	ND	ug/L	1.0

ND = Not Detected

Quanterra
Environmental Services

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 121425

Method 8260 - Volatile Organics (cont.)

Test: 8260-A
Matrix: AQUEOUS
QC Run: 30 SEP 96-BDX

Date Analyzed: 30 SEP 96

Analyte	Result	Units	Reporting Limit
tert-Butylbenzene	ND	ug/L	1.0
1,2,4-Trimethylbenzene	ND	ug/L	1.0
sec-Butylbenzene	ND	ug/L	1.0
Isopropyltoluene	ND	ug/L	1.0
1,3-Dichlorobenzene	ND	ug/L	1.0
1,4-Dichlorobenzene	ND	ug/L	1.0
n-Butylbenzene	ND	ug/L	1.0
1,2-Dichlorobenzene	ND	ug/L	1.0
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0
1,2,4-Trichlorobenzene	ND	ug/L	1.0
Hexachlorobutadiene	ND	ug/L	1.0
Naphthalene	ND	ug/L	1.0
1,2,3-Trichlorobenzene	ND	ug/L	1.0
Acetone	ND	ug/L	10
2-Butanone	ND	ug/L	10
4-Methyl-2-pentanone	ND	ug/L	10
2-Hexanone	ND	ug/L	10
Carbon disulfide	ND	ug/L	5.0

ND = Not Detected

Quanterra Environmental Services

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 121425

Test: 8260-A
Matrix: AQUEOUS
QC Run: 03 OCT 96-ADX

Method 8260 - Volatile Organics

Date Analyzed: 03 OCT 96

Analyte	Result	Units	Reporting Limit
Dichlorodifluoromethane	ND	ug/L	1.0
Chloromethane	ND	ug/L	1.0
Vinyl chloride	ND	ug/L	1.0
Bromomethane	ND	ug/L	1.0
Chloroethane	ND	ug/L	1.0
Trichlorofluoromethane	ND	ug/L	1.0
1,1-Dichloroethene	ND	ug/L	1.0
Methylene chloride	ND	ug/L	1.0
trans-1,2-Dichloroethene	ND	ug/L	1.0
1,1-Dichloroethane	ND	ug/L	1.0
2,2-Dichloropropane	ND	ug/L	1.0
cis-1,2-Dichloroethene	ND	ug/L	1.0
Chloroform	ND	ug/L	1.0
Bromochloromethane	ND	ug/L	1.0
1,1,1-Trichloroethane	ND	ug/L	1.0
1,1-Dichloropropene	ND	ug/L	1.0
Carbon tetrachloride	ND	ug/L	1.0
1,2-Dichloroethane	ND	ug/L	1.0
Benzene	ND	ug/L	1.0
Trichloroethene	ND	ug/L	1.0
1,2-Dichloropropane	ND	ug/L	1.0
Bromodichloromethane	ND	ug/L	1.0
Dibromomethane	ND	ug/L	1.0
Toluene	ND	ug/L	1.0
1,1,2-Trichloroethane	ND	ug/L	1.0
1,2-Dibromoethane (EDB)	ND	ug/L	1.0
1,3-Dichloropropane	ND	ug/L	1.0
Tetrachloroethene	ND	ug/L	1.0
Dibromochloromethane	ND	ug/L	1.0
Chlorobenzene	ND	ug/L	1.0
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0
Ethylbenzene	ND	ug/L	1.0
Xylenes (total)	ND	ug/L	1.0
Styrene	ND	ug/L	1.0
Bromoform	ND	ug/L	1.0
1-Methylethylbenzene	ND	ug/L	1.0
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0
1,2,3-Trichloropropane	ND	ug/L	1.0
n-Propyl benzene	ND	ug/L	1.0
Bromobenzene	ND	ug/L	1.0
1,3,5-Trimethylbenzene	ND	ug/L	1.0
2-Chlorotoluene	ND	ug/L	1.0
4-Chlorotoluene	ND	ug/L	1.0

ND = Not Detected

Quanterra Environmental Services

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 121425

Test: 8260-A Method 8260 - Volatile Organics (cont.)
Matrix: AQUEOUS
QC Run: 03 OCT 96-ADX Date Analyzed: 03 OCT 96

Analyte	Result	Units	Reporting Limit
tert-Butylbenzene	ND	ug/L	1.0
1,2,4-Trimethylbenzene	ND	ug/L	1.0
sec-Butylbenzene	ND	ug/L	1.0
Isopropyltoluene	ND	ug/L	1.0
1,3-Dichlorobenzene	ND	ug/L	1.0
1,4-Dichlorobenzene	ND	ug/L	1.0
n-Butylbenzene	ND	ug/L	1.0
1,2-Dichlorobenzene	ND	ug/L	1.0
1,2-Dibromo-3-chloro-propane (DBCP)	ND	ug/L	1.0
1,2,4-Trichlorobenzene	ND	ug/L	1.0
Hexachlorobutadiene	ND	ug/L	1.0
Naphthalene	ND	ug/L	1.0
1,2,3-Trichlorobenzene	ND	ug/L	1.0
Acetone	ND	ug/L	10
2-Butanone	ND	ug/L	10
4-Methyl-2-pentanone	ND	ug/L	10
2-Hexanone	ND	ug/L	10
Carbon disulfide	ND	ug/L	5.0

ND = Not Detected

APPENDIX C

GROUNDWATER PURGE AND SAMPLE FORMS

Daily Inspection Report No. _____

Kennedy/Jenks/Chilton

Contractor —

Supt. on Job

Weather Clear

Temperature 80 °F Max 70 °F Min

Work Hours 800 to 1930 Memos Issued

Photos —

Sheet 1 of 3

Date 9/18/96

Project DAC

K/J/C Job No. 944016.01

Special Conditions, Delays, Changes Purge + Sample pump began malfunctioning due to overheating + faulty wiring.

Accidents Damage —

Sampling, Testing See notes.

Visitors to Site —

Work Report (Work done, Personnel/Equipment working) Objectives: Purge + Sample monitor wells at DAC Facility.

800 Arrived at DAC. Began setting up to measure water levels in wells.
- Decontaminated water level probe in Liquinox + water solution before + after measuring every well.

900 Began measuring water levels from top of casing.

	Water	TD		Water	TD
WCC-5S	63.69	89.25	WCC-4S	65.18	89.56
WCC-9S	62.77	89.00	WCC-1S	66.06	83.40
WCC-1D	66.10	135.57	WCC-3D	66.68	138.52
WCC-10S	65.80	89.35	WCC-3S	66.60	88.05
WCC-2S	65.77	88.74	WCC-6S	66.60	89.05
WCC-11S	64.61	89.10	DAC-P1	67.32	89.95
WCC-12S	62.80	90.10			
WCC-7S	64.24	88.80			
WCC-8S	65.83	89.00			

Distribution: Inspection File (orig)
Field File

By [signature]

Daily Inspection Report

Kennedy/Jenks Consultants
200 New Stine Road, Suite 115
Bakersfield, California 93309
805-835-9785
FAX 805-831-5196

Job Title DAC Job No. 944016.01

Date 9/18/96 Sheet 2 of 3

1100 Finished measuring water levels in all wells.
1115 Left site to buy supplys.
1200 Returned to site. Began setting up pump to purge wells with 3/4" clear PVC hose & a Redi-Flow 2 pump.

1430 Finished decon + all setup & began purgeing WCC-SS at 85' bgs.

1445 Pump thermally overloaded at 10gal. purged from well.
- Will allow pump motor to cool + resume purge.

1447 Resumed purge. Will move pump around in casing manually to allow pump to remain cool.
1450 Pump overloaded again.
Pulled pump from well + moved to decon area.
1510 Unspooled hose + lead from real + began rebuilding + rewiring pump.
1600 Finished respooling pump + moved back to WCC-SS to finish purge.
1619 Resumed purge.
1636 Collected sample # WCCSS-16 after 60gal. total purged.
- Sample collected in 3-40mL VOAs + loaded immediatly into a cold ice chest.

1648 Began deconing pump, hose, lead + depth sounder for use in WCC-9S.

Inspector

F-4
Rev. 11/91

BOE-C6-0193128

Daily Inspection Report **Kennedy/Jenks Consultants**

200 New Stine Road, Suite 115
Bakersfield, California 93309
805-835-9785
FAX 805-831-5196

Job Title DAC Job No. 944016.01

Date 9/18/96 Sheet 3 of 3

1708 Began setting up at WCC-9S.
1717 Began purge from 85' bgs.
1737 Finished purge at 40 gal. + collected sample # WCC9S-16.
1750 Performed decon of pump + related equipment.
1800 Began setting up to purge + sample WCC-1D
WCC-1D is a deep well + the total purge volume is 133.38 gal.

1809 Began purgeing WCC-1D from 120'.
1847 Finished purge + collected sample # WCC1D-16.
Purged 135 gal. into 3 drums.
1930 Finished closing drums + well, loaded the truck + left the site.

-Note: Collected the duplicate sample # DW-091896 from WCC-1D.
Collected sample by filling VOAs for WCC1D-16 + DW-091896 alternately until all VOAs were full.

Inspector

F-4
Rev. 11/91

BOE-C6-0193129

Groundwater Purge and Sample Form Date: 9/18/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-5S

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 63.69

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1430

PURGE DEPTH (FT) 85'

TIME END PURGE: 1632

TIME SAMPLED: 1636

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x3= 49gal. CASING VOLUME (GAL)
	89.25		63.69		25.56		0.16	0.64	1.44		16.35

TIME	1438	1621	1623	1628	1632		
VOLUME PURGED (GAL)	5gal.	15gal.	30gal.	45gal.	60gal		
PURGE RATE (GPM)							
TEMPERATURE (°C)	79.5	77.3	74.8	74.6	74.3		
pH	7.31	7.63	7.39	7.43	7.39		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1554.	1522.	1452.	1414.	1400		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	Clear	Clear		
ODOR	None	NO	NO	NO	NO		
DEPTH OF PURGE INTAKE (FT)	85'	85'	85'	85'	85'		
DEPTH TO WATER DURING PURGE (FT)	63.75	64.45	64.49	64.50	64.50		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 9/18/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-5S

PROJECT NUMBER: 944016.02 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1636 COMMENTS:

DEPTH SAMPLED (FT): 85'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC5S-16	3	VOAs	HCL	—	120mL	—	Clear	Yes	8260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 60gal. COMMENTS:

DISPOSAL METHOD: On site drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): 1 drum

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: (YES) NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: (YES) NO

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 80 °F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? Pump overheated on first attempt to purge.

cc: Project Manager: Jay Knight
Job File:
Other:

F-43.2 (5-89)

BOE-C6-0193131

Groundwater Purge and Sample Form Date: 9/18/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-9S

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 62.77

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1717

PURGE DEPTH (FT) 85'

TIME END PURGE: 1732

TIME SAMPLED: 1737

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	X3=40 CASING VOLUME (GAL)
	89.00		62.77		26.23		0.16	0.64	1.44		16.78

TIME	1720	1726	1728	1732			
VOLUME PURGED (GAL)	10gal.	20gal.	30gal.	40gal.			
PURGE RATE (GPM)							
TEMPERATURE (°C)	73.9	71.5	71.8	72.2			
pH	7.61	7.73	7.52	7.50			
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1525.	1030.	1006. ~~1060.~~	1003.			
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	v.v. light gray	Clear	Clear	Clear			
ODOR	NO	NO	NO	NO			
DEPTH OF PURGE INTAKE (FT)	85'	85'	85'	85'			
DEPTH TO WATER DURING PURGE (FT)	63.95	63.98	64.00	64.01			
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89)

Groundwater Purge and Sample Form Date: 9/18/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-9S

PROJECT NUMBER: 944016.02 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1737 COMMENTS:

DEPTH SAMPLED (FT): 85'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC9S-16	3	VOA	HCL	—	120mL	—	Clear	YES	8260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 40 gal. COMMENTS:

DISPOSAL METHOD: On site drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): 1 drum

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: (YES) NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: (YES) NO

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 78°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Jay Knight
Job File:
Other:

Groundwater Purge and Sample Form Date: 9/18/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-1D

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 66.10

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1809

PURGE DEPTH (FT) 120'

TIME END PURGE: 1843

TIME SAMPLED: 1847

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x3 = 133.38 CASING VOLUME (GAL)
	135.57		66.10		69.47		0.16	0.64	1.44		44.46

TIME	1814	1824	1835	1839	1843		
VOLUME PURGED (GAL)	15gal.	60gal.	100 ~~80~~gal.	120 ~~100~~gal.	135 ~~120~~gal.		
PURGE RATE (GPM)							
TEMPERATURE (°C)	73.8	70.9	70.6	71.5 ~~70~~	70.9		
pH	7.99	7.83	7.75	7.74	7.72		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	757.	669.	657.	662.	659.		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	Clear	Clear		
ODOR	NO	NO	NO	NO	NO		
DEPTH OF PURGE INTAKE (FT)	120'	120'	120'	120'	120'		
DEPTH TO WATER DURING PURGE (FT)	72.03	72.36	72.44	72.35	72.37		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89)

Groundwater Purge and Sample Form Date: 9/18/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-1D

PROJECT NUMBER: 944016.02 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1847 COMMENTS: DW-091896 is a duplicate sample.

DEPTH SAMPLED (FT): 120'

SAMPLING EQUIPMENT:

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC1D-16	3	VOAs	HCL	—	120 mL	—	Clear	Yes	8260	
DW-091896	"	"	"	—	"	—	"	"	"	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 135 gal. COMMENTS:

DISPOSAL METHOD: On site drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): 3 drums.

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: (YES) NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: (YES) NO

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 75°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Shane Scrimshire
Job File:
Other:

F-43.2 (5-89)

Daily Inspection Report No. _____ **Kennedy/Jenks/Chilton**

Contractor ——

Supt. on Job Shane Scrimshire

Weather Clear

Temperature 80 °F Max 70 °F Min

Work Hours 600 to 1835 Memos Issued

Photos ——

Special Conditions, Delays, Changes ——

Sheet 1 of 3

Date 9/19/96

Project DAC

K/J/C Job No. 944016.01

Accidents Damage ——

Sampling, Testing See notes

Visitors to Site ——

Work Report (Work done, Personnel/Equipment working) Objectives: Purge + sample monitor wells on DAC site.

600 Arrived at site. Began decontaminating equipment with steamcleaner + soapy water rinse.

655 Began purge WCC-10S from about 85' bgs.
708 Finished purge at 45 gal. removed. Lowered ~~Coll~~ flowrate to 250ml/min for sample.
712 collected sample # WCC10S-16.

725 Began decon.
737 Began setting up at WCC-2S. Will purge from ≤5' bgs.
743 Began purge.
757 Finished purge + lowered purgerate to 250ml/min.
800 collected sample # WCC2S-16.
815 Began decon.
830 Began setting up to purge well WCC-11S.
832 Began purge. - pH measurements are erratic.
850 Collected sample # WCC11S-16

Distribution: Inspection File (orig)
Field File

By [signature]

F-3
Rev. 9/86

BOE-C6-0193136

Daily Inspection Report

Kennedy/Jenks Consultants

200 New Stine Road, Suite 115
Bakersfield, California 93309
805-835-9785
FAX 805-831-5196

Job Title DAC Job No. 944016.01

Date 9/19/96 Sheet 2 of 3

900 Left site to by batterys for pH meter.

932 Began setting up to purge WCC-12S.
954 Collected sample # WCC12S-16.
1018 Setting up at WCC-7S.
1024 Began purge.
1050 Collected sample # WCC7S-16.

1105 Began setting up at WCC-8S

1128 Collected sample # WCC8S-16.

1158 Began purgeing well # WCC-4S.

1215 Collected sample # WCC4S-16.
1230 Began setting up to purge WCC-1S.
This is a 2" well with about 1gpm max
recovery/pump rate.

1246 Began purgeing WCC-1S at about 1gpm.
-Could not measure depth to water during purge
because of small dia. well.
1300 Finished purge at about 12gal. purged.
Lowered pump rate to 250ml/min for sample
1304 Collected sample # WCC1S-16.

1322 Began purgeing WCC-3D from about 100' bgs.
Total purge volume is 138gal. (TD is 138.52)
1430 Collected sample # WCC3D-16.

Inspector

F-4
Rev. 11/91

BOE-C6-0193137

Daily Inspection Report **Kennedy/Jenks Consultants**

200 New Stine Road, Suite 115
Bakersfield, California 93309
805-835-9785
FAX 805-831-5196

Job Title DAC Job No. 944016.01

Date 9/19/96 Sheet 3 of 3

1508 Began purgeing well # WCC-35.
- Well water has a light, silver stream + a mod. solvent odor.

1526 Collected sample # WCC35-16.

1602 Began purgeing well # WCC-65.
- Water does not appear to have a stream but does have a strong sour odor.

1624 Collected samples # WCC65-16 + DW-091996. DW-091996 is a duplicate sample collected by alternating containers between the dup. + sample until all bottles were full.

1650 Finished decon. I demobed the decon ~~1640~~ station, closed the rinsate drum + moved to DAC-P1.
- Final decon (after DAC-P1) will be performed at DAC-P1.

1714 Began purgeing DAC-P1. I set the purge rate to about 2gpm because of slow recovery rate.

1742 Collected sample # DACP1-16. After sample was collected I pulled the pump + deconed for the Equipment Rinsate Blank.

1800 Collected EB-091996 by pouring distilled water over the clean pump head + collected the rinsate in VOA's.

1835 Left site.

Inspector

F-4
Rev. 11/91

BOE-C6-0193138

Groundwater Purge and Sample Form Date: 9/19/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC10-5

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 65.80

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 655

PURGE DEPTH (FT) 85'

TIME END PURGE: 708

TIME SAMPLED: 712

COMMENTS: Lowered purgerate to 250 ml/min for sample collection.

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x3=45 CASING VOLUME (GAL)
	89.35		65.80		23.55		0.16	0.64	1.44		15

TIME	657	700	706	708			
VOLUME PURGED (GAL)	10gal.	20gal.	38gal.	45gal.			
PURGE RATE (GPM)							
TEMPERATURE (°C)	69.0	70.9	71.2	71.8			
pH	7.29	7.18	7.19	7.09			
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	886.	898.	897.	892.			
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear				
ODOR	NO	NO	NO				
DEPTH OF PURGE INTAKE (FT)	85'	85'	85'	85'			
DEPTH TO WATER DURING PURGE (FT)	67.51	67.67	67.75	67.78			
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 9/19/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-10S

PROJECT NUMBER: 944016.02 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 712 COMMENTS:

DEPTH SAMPLED (FT): 85'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC10S-16	3	VOA	HCL	—	120mL	—	Clear	Yes	8260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 45gal. COMMENTS:

DISPOSAL METHOD: On site drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): 1 drum

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: (YES) NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: (YES) NO

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 71°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Jay Knight
Job File:
Other:

Groundwater Purge and Sample Form Date: 9/19/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-2S

PROJECT NUMBER: 944016.01 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 65.77 MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe PURGE METHOD: Redi-Flow 2

TIME START PURGE: 743 PURGE DEPTH (FT)

TIME END PURGE: 757

TIME SAMPLED: 800

COMMENTS: Recalibrated pH at 753. Lowered purgerate to 250 mL/min for sample collection

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	X3=44 CASING VOLUME (GAL)
	88.74		65.77		22.97 ~~22.98~~		0.16	0.64	1.44		14.70

TIME	746	750	753	757			
VOLUME PURGED (GAL)	10gal.	20gal.	38gal.	47gal.			
PURGE RATE (GPM)							
TEMPERATURE (°C)	70.3	71.3	71.7	71.5			
pH	7.09	6.95	7.48 ~~6.89~~	7.56			
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1108.	983.	953.	946.			
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	Clear			
ODOR	NO	NO	NO	NO			
DEPTH OF PURGE INTAKE (FT)	85'	85'	85'	85'			
DEPTH TO WATER DURING PURGE (FT)	67.16	67.26	67.32	67.36			
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 9/19/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-25

PROJECT NUMBER: 944016.02 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 800 COMMENTS:

DEPTH SAMPLED (FT): 85'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAIN-ERS	CON-TAINER TYPE	PRESER-VATIVE	FIELD FILTRA-TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUS-TODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC25 16	3	VOA	HCL	—	120mL	—	Clear	NO	8260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 47 gal. COMMENTS:

DISPOSAL METHOD: On site drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): 1 drum

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: (YES) NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: (YES) NO

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 71°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Jay Knight
Job File:
Other:

Groundwater Purge and Sample Form Date: 9/19/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-11S

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 64.61

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 832

PURGE DEPTH (FT) 85'

TIME END PURGE: 846

TIME SAMPLED: 850

COMMENTS: 846 - pH meter out of calibration.

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	X3= 47 CASING VOLUME (GAL)
	89.10		64.61		24.49		0.16	0.64	1.44		15.67

TIME	835	841	843	846			
VOLUME PURGED (GAL)	10gal.	30gal.	40gal.	50gal.			
PURGE RATE (GPM)							
TEMPERATURE (°C)	72.0	72.0	72.5	73.3			
pH	7.38	7.27	7.29	—			
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	955.	1011.	1002.	965.			
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	Clear			
ODOR	NO	NO	NO	NO			
DEPTH OF PURGE INTAKE (FT)	85'	85'	85'	85'			
DEPTH TO WATER DURING PURGE (FT)	69.25	69.75	69.85	69.93			
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 9/19/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-11S

PROJECT NUMBER: 944016.02 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 850 COMMENTS:

DEPTH SAMPLED (FT): 85'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAIN-ERS	CON-TAINER TYPE	PRESER-VATIVE	FIELD FILTRA-TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUS-TODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC11S 16	3	VOA	HCL	—	20mL	—	Clear	Yes	8260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 50 gal. COMMENTS:

DISPOSAL METHOD: On site drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL):

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: (YES) NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: (YES) NO

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 75°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Jay Knight
Job File:
Other:

Groundwater Purge and Sample Form Date: 9/19/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-12S

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 62.80

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 932

PURGE DEPTH (FT) 85'

TIME END PURGE: 950

TIME SAMPLED: 954

COMMENTS: 936 - Re calibrated pH meter.

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x3 = 52.41 CASING VOLUME (GAL)
	90.10 ~~88.74~~		62.80		27.30		0.16	0.64	1.44		17.47

TIME	936	938	942	945	950		
VOLUME PURGED (GAL)	10gal.	20gal.	30gal.	40gal.	55gal.		
PURGE RATE (GPM)							
TEMPERATURE (°C)	74.9	74.3	74.1	74.4	74.2		
pH	6.85	7.00	7.07	7.14	7.13		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1308.	1177.	1119.	1132.	1142.		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	v. lightly turb. tan	→	→	Clear	Clear		
ODOR	NO	NO	NO	NO	NO		
DEPTH OF PURGE INTAKE (FT)	85'	85'	85'	85'	85'		
DEPTH TO WATER DURING PURGE (FT)	64.90	64.94	64.99	65.01	65.05		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 9/19/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-25

PROJECT NUMBER: 944016.02 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 954 COMMENTS:

DEPTH SAMPLED (FT): 85'

SAMPLING EQUIPMENT:

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC125 16	3	VOA	HCL	—	120ml	—	Clear	YES	8260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 55gal. COMMENTS:

DISPOSAL METHOD: On site drum storage.

DRUM DESIGNATION(S)/VOLUME PER (GAL): 1 drum

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: (YES) NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: (YES) NO

WELL CASING OK?: (YES) NO

COMMENTS: Cristy Box lid is a machined aluminum plate with no bolt holes.

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 76°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Jay Knight
Job File:
Other:

Groundwater Purge and Sample Form Date: 9/19/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-7S

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 64.24

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Red. -Flow 2

TIME START PURGE: 1024

PURGE DEPTH (FT) 85'

TIME END PURGE: 1043

TIME SAMPLED: 1050

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x3=47.13 CASING VOLUME (GAL)
	88.80		64.24		24.56		0.16	0.64	1.44		15.71

TIME	1028	1032	1036	1039	1043		
VOLUME PURGED (GAL)	10gal.	20gal.	30gal.	40gal.	50gal.		
PURGE RATE (GPM)							
TEMPERATURE (°C)	76.8	76.1	75.4	75.4	76.1		
pH	6.73	7.16	7.33	7.64	—		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1826.	1734.	1564.	1427.	1379.		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	Clear	Clear		
ODOR	NO	NO	NO	NO	NO		
DEPTH OF PURGE INTAKE (FT)	85'	85'	85'	85'	85'		
DEPTH TO WATER DURING PURGE (FT)	64.95	64.98	65.00	65.01	65.02		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 9/19/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-7S

PROJECT NUMBER: 944016.02 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1050 COMMENTS:

DEPTH SAMPLED (FT): 85'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC7S-16	3	VOA	HCL	—	120mL	—	Clear	YES	8260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 50' COMMENTS:

DISPOSAL METHOD: On site drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): 1 drum

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: (YES) NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: (YES) NO

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 76°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Jay Knight
Job File:
Other:

Groundwater Purge and Sample Form Date: 9/19/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-85

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 65.83

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1110

PURGE DEPTH (FT) 85'

TIME END PURGE: 1125

TIME SAMPLED: 1128

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	X3= 44.46 CASING VOLUME (GAL)
	89.00		65.83		23.17		0.16	0.64	1.44		14.82

TIME	1115	1118	1121	1124	1125		
VOLUME PURGED (GAL)	10gal.	20gal.	30gal.	40gal.	45gal.		
PURGE RATE (GPM)							
TEMPERATURE (°C)	79.0	77.0	77.0	76.4	76.8		
pH	6.93	6.80	6.78	6.81	6.76		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1777.	1739.	1743.	1726.	1734.		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	Clear	Clear		
ODOR	NO	NO	NO	NO	NO		
DEPTH OF PURGE INTAKE (FT)	85'	85'	85'	85'	85'		
DEPTH TO WATER DURING PURGE (FT)	67.12	67.14	67.29	67.30	67.30		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 9/19/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-85

PROJECT NUMBER: 944016.02 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1128 COMMENTS:

DEPTH SAMPLED (FT): 85'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC85-16	3	VOA	HCL	—	120mL	—	Clear	Yes	8260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 45gal. COMMENTS:

DISPOSAL METHOD: On site drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL):

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: (YES) NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: (YES) NO

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 77°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Jay Knight
Job File:
Other:

Groundwater Purge and Sample Form Date: 9/19/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-45

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 65.18

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1158

PURGE DEPTH (FT) 85'

TIME END PURGE: 1213

TIME SAMPLED: 1215

COMMENTS: Lowered purgerate to 250 ml/min for sample collection.

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	X3=46.8 CASING VOLUME (GAL)
	89.56		65.18		24.38		0.16	0.64	1.44		15.60

TIME	1201	1205	1209	1211	1213		
VOLUME PURGED (GAL)	10gal.	20gal.	30gal.	40gal.	48gal.		
PURGE RATE (GPM)							
TEMPERATURE (°C)	77.5	76.2	76.0	75.5	76.0		
pH	7.04	7.05	7.06	7.13	7.04		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1744.	1720.	1595.	1488.	1457.		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	Clear	Clear		
ODOR	NO	NO	NO	NO	NO		
DEPTH OF PURGE INTAKE (FT)	85'	85'	85'	85'	85'		
DEPTH TO WATER DURING PURGE (FT)	66.15	66.17	66.20	66.24	66.24		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 9/19/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-45

PROJECT NUMBER: 944016.02 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1215 COMMENTS:

DEPTH SAMPLED (FT): 85'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC45-16	3	VOA	HCL	—	120mL	—	Clear	YES	8260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 48 gal. COMMENTS:

DISPOSAL METHOD: On site drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): 1 drum

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: (YES) NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: (YES) NO

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 78°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Jay Knight
Job File:
Other:

Groundwater Purge and Sample Form Date: 9/19/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-1S

PROJECT NUMBER: 944016.02 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 66.06 MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1246 PURGE DEPTH (FT) 82'

TIME END PURGE: 1300

TIME SAMPLED: 1304

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x3= 8.31 CASING VOLUME (GAL)
	83.40		66.06		17.34		0.16	0.64	1.44		2.77

TIME	1252	1256	1300				
VOLUME PURGED (GAL)	5gal.	9gal.	12gal.				
PURGE RATE (GPM)							
TEMPERATURE (°C)	80.4	79.3	79.2				
pH	7.12	7.12	7.02				
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1912.	1968.	1945				
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Yell. Silty	light yell. Silty	v.v light Yell.				
ODOR	NO	NO	NO				
DEPTH OF PURGE INTAKE (FT)	82'	82'	82'				
DEPTH TO WATER DURING PURGE (FT)	—	—	—				
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 9/19/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-1S

PROJECT NUMBER: 944016.02 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1304 COMMENTS:

DEPTH SAMPLED (FT): 82'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC1S-16	3	VOA	HCL	—	120mL	—	v.v light yell.	Yes	8260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 12gal. COMMENTS:

DISPOSAL METHOD: On site drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): 1 drum

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: (YES) NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: (YES) NO

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 78°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Jay Knight
Job File:
Other:

Groundwater Purge and Sample Form Date: 9/19/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-3D

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 66.68

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1322

PURGE DEPTH (FT) 100'

TIME END PURGE: 1427

TIME SAMPLED: 1430

COMMENTS:

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x3 = 138gal CASING VOLUME (GAL)
	138.52		66.68		71.84		0.16	0.64	1.44		45.97

TIME	1325	1346	1409	1418	1427		
VOLUME PURGED (GAL)	10gal.	60gal.	100gal.	120gal.	140gal.		
PURGE RATE (GPM)							
TEMPERATURE (°C)	74.9	74.3	74.6	73.9	73.5		
pH	6.60	5.50	6.38	7.21	7.48		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	694.	680.	681.	660.	684.		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	Clear	Clear		
ODOR	light sour odor	→	NO	NO	NO		
DEPTH OF PURGE INTAKE (FT)	100'	100'	100'	100'	100'		
DEPTH TO WATER DURING PURGE (FT)	N.A.	87.25	87.12	87.22	87.23		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 9/19/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-3D

PROJECT NUMBER: 944016.02 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1430 COMMENTS:

DEPTH SAMPLED (FT): 100'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC3D-16	3	VOA	HCL	—	120mL	—	Clear	Yes	8260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 140 gal. COMMENTS:

DISPOSAL METHOD: On site drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): 3 drums

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: (YES) NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: (YES) NO

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 75°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Jay Knight
Job File:
Other:

Groundwater Purge and Sample Form Date: 9/19/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-3S

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 66.60

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1508

PURGE DEPTH (FT) 85'

TIME END PURGE: 1523

TIME SAMPLED: 1526

COMMENTS: Small black particles (Fine sand) in purge water. Purgewater has a light silver sheen

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	X3= ~~42.21~~ 41 CASING VOLUME (GAL)
	88.05		66.60		21.45 ~~21.99~~		0.16	0.64	1.44		13.72 ~~14.07~~

TIME	1512	1516	1520	1523			
VOLUME PURGED (GAL)	10gal.	20gal.	30gal.	40gal.			
PURGE RATE (GPM)							
TEMPERATURE (°C)	75.2	74.2	73.7	73.7			
pH	6.70	6.81	6.82	6.89			
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	3,760.	3,190.	2,940.	2,610.			
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	Clear			
ODOR	Sour odor	Sour odor	Sour odor	Light sour odor			
DEPTH OF PURGE INTAKE (FT)	85'	85'	85'	85'			
DEPTH TO WATER DURING PURGE (FT)	67.27	67.31	67.32	67.35			
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89)

Groundwater Purge and Sample Form Date: 9/19/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-3S

PROJECT NUMBER: 944016.02 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1526 COMMENTS:

DEPTH SAMPLED (FT): 85'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC3S-16	3	VOA	HCL	—	120mL	—	Clear	Yes	8260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 40gal. COMMENTS:

DISPOSAL METHOD: On site drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL):

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: (YES) NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: (YES) NO

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 74°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Jay Knight
Job File:
Other:

Groundwater Purge and Sample Form Date: 9/19/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-65

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 66.60

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1602

PURGE DEPTH (FT) 85'

TIME END PURGE: 1620

TIME SAMPLED: 1624

COMMENTS: Collected duplicate # DW-091996 from WCC-65.

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	X 3 = 43.08 CASING VOLUME (GAL)
	89.05		66.60		22.45		0.16	0.64	1.44		14.36

TIME	1607	1611	1616	1620			
VOLUME PURGED (GAL)	10gal.	20gal.	35gal	35gal.			
PURGE RATE (GPM)							
TEMPERATURE (°C)	74.0	73.6	73.5	73.2			
pH	7.35	7.33	7.29	7.30			
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1321.	1338.	1349.	1344.			
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear	Clear			
ODOR	Sour odor	Sour odor	Sour odor	Sour odor			
DEPTH OF PURGE INTAKE (FT)	85'	85'	85'	85'			
DEPTH TO WATER DURING PURGE (FT)	68.02	68.11	68.15	68.19			
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 9/19/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-65

PROJECT NUMBER: 944016.02 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1624 COMMENTS: DW-091996 is a duplicate sample of WCC65-16.

DEPTH SAMPLED (FT): 85'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC65-16	3	VOA	HCL	—	120mL	—	Clear	Yes	8260	
DW-091996	"	"	"	—	"	—	"	"	"	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 35gal. COMMENTS:

DISPOSAL METHOD: On site drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): 1 drum

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: (YES) NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: (YES) NO

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 75°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Jay Knight
Job File:
Other:

Groundwater Purge and Sample Form Date: 9/19/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: DAC-P1

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 67.32

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1714

PURGE DEPTH (FT) 88'

TIME END PURGE: 1738

TIME SAMPLED: 1742

COMMENTS: ~~1552~~ 1800 - Collected EB-091996 (Equipment Blank)

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN) 2	4	6	=	x3=43.44 CASING VOLUME (GAL)
	89.95		67.32		22.63		0.16	0.64	1.44		14.48

TIME	1729	1733	1738				
VOLUME PURGED (GAL)	25gal.	35gal.	45gal.				
PURGE RATE (GPM)	2gpm	2gpm	2gpm				
TEMPERATURE (°C)	73.4	73.7	72.8				
pH	6.74	6.79	6.93				
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	2080.	2100.	2080.				
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear				
ODOR	NO	NO	NO				
DEPTH OF PURGE INTAKE (FT)	88'	88'	88'				
DEPTH TO WATER DURING PURGE (FT)	70.02	70.15	70.29				
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 9/19/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: DAC-P1

PROJECT NUMBER: 944016.02 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1738 COMMENTS: 1800 - collected the Equipment Rinsate ~~Rinsate~~ blank after decoming equip.

DEPTH SAMPLED (FT): 88'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
DACP1-16	3	VOA	HCL	—	120mL	—	Clear	Yes	8260	
EB-091996	"	"	"	—	"	—	"	"	"	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 45gal. COMMENTS:

DISPOSAL METHOD: On site drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): 1 drum

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: (YES) NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: (YES) NO

WELL CASING OK?: (YES) NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 73°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Jay Knight
Job File:
Other:

APPENDIX D

CHAIN-OF-CUSTODY RECORDS

Chain of Custody Record

Quanterra Environmental Services

QUA-4124-1

Client	Project Manager	Date	Chain Of Custody Number
Kennedy / Jenks	Jay Knight	9/18/96	64206
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
2151 Mickelson Dr. Ste 100	714-261-1577		

City	State	Zip Code	Site Contact	Lab Contact
Irvine	CA.	92715		

Project Name	Carrier/Waybill Number
DAC	

Contract/Purchase Order/Quote No.

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		8260	Special Instructions/ Conditions of Receipt
WCC 5S-16	9/18/96	1636	X							X				X	
WCC 9S-16		1737	X							X				X	
WCC 1D-16		1847	X							X				X	
DW-091896		—	X							X				X	
TB-091896		—	X							X				X	

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: [ ] 24 Hours [ ] 48 Hours [ ] 7 Days [ ] 14 Days [ ] 21 Days [ ] Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	9-18-96	1830	1. Received By	9-18-96	1830
2. Relinquished By	9-19-96	1001	2. Received By	9/19/96	1001
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

BOE-C6-0193164

Chain of Custody Record

QUA-4124-1

Quanterra Environmental Services

Client: Kennedy / Jenks	Project Manager: Jay Knight	Date: 9/19/96	Chain Of Custody Number: 64210
Address: 2151 Mickelson Dr. Ste 100	Telephone Number (Area Code)/Fax Number: 714-261-1577	Lab Number:	Page 1 of 2
City: Irvine; State: CA; Zip Code: 92715	Site Contact:	Lab Contact:	
Project Name: DAC	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): 8260	Special Instructions/ Conditions of Receipt
WCC10S-16	9/19/96	712	X							X				X	
WCC2S-16		800	X							X				X	
WCC11S-16		850	X							X				X	
WCC12S-16		954	X							X				X	
WCC7S-16		1050	X							X				X	
WCC8S-16		1128	X							X				X	
WCC4S-16		1215	X							X				X	
WCC1S-16		1304	X							X				X	
WCC3D-16		1430	X							X				X	
WCC3S-16		1526	X							X				X	

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: [ ] 24 Hours [ ] 48 Hours [ ] 7 Days [ ] 14 Days [ ] 21 Days [ ] Other _____

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By	9/19/96	1830	1. Received By	9-19-96	1830
2. Relinquished By	9-20-96	1025	2. Received By K FISITAL	9/20/96	1025
3. Relinquished By			3. Received By		

Comments:

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

BOE-C6-0193165

Chain of Custody Record

QUA-4124-1

Quanterra Environmental Services

Client: Kennedy / Jenks	Project Manager: Jay Knight	Date: 9/19/96	Chain Of Custody Number: 64208
Address: 2151 Michelson Dr. Ste 100	Telephone/Number (Area Code)/Fax Number: 714-261-1577	Lab Number:	Page 2 of 2
City: Irvine ~~Bakersfield~~ SCS; State: CA; Zip Code: 92715	Site Contact:	Lab Contact:	
Project Name: DAC	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): 8260	Special Instructions/ Conditions of Receipt
WCC 6S-16	9/19/96	1624	X							X				X	
DACPI-16		1742	X							X				X	
EB-091996		1800	X							X				X	
DW-091996		—	X							X				X	
TB-091996		—	X							X				X	

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: [ ] 24 Hours [ ] 48 Hours [ ] 7 Days [ ] 14 Days [ ] 21 Days [ ] Other _____

QC Requirements (Specify):

1. Relinquished By	Date: 9/19/96	Time: 1830	1. Received By	Date: 9-19-96	Time: 1830
2. Relinquished By	Date: 9/20/96	Time: 1025	2. Received By	Date: 9/20/96	Time: 1025
3. Relinquished By	Date:	Time:	3. Received By	Date:	Time:

Comments:

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

BOE-C6-0193166