MCDONNELL DOUGLAS

Douglas Aircraft Company

GROUNDWATER MONITORING
DATA SUMMARY REPORT
FOURTH QUARTER 1996

DOUGLAS AIRCRAFT COMPANY
C-6 FACILITY
TORRANCE, CALIFORNIA

K/J 944016.02

JANUARY 1997

GROUNDWATER MONITORING DATA SUMMARY REPORT
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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 17, 18, and 19 December, Fourth Quarter 1996.

2.0 QUARTERLY MONITORING PROGRAM

Fourth Quarter 1996 groundwater sampling was performed in accordance with standard sampling procedures. Static water level depths were measured on 17 December 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. Well WCC-10S was either covered or destroyed as the result of demolition activities on site, and was not measured or sampled.

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 Fourth Quarter 1996.

> WCC-1S, WCC-2S, WCC-3S, WCC-4S, WCC-5S, WCC-6S, WCC-7S, WCC-8S, WCC-9S, 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 December 1996 for quality control purposes. The duplicates were collected in three HCl-preserved vials and identified by inserting the collection date after "DW-" (DW-121896 and DW-121996). No further sample identification was provided to the laboratory. Duplicate samples were taken on 18 and 19 December from observation wells WCC-1S 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. EB121996 was collected after sampling well DAC-P1. A trip blank was also analyzed for sampling and shipping activities and was identified as TB-121896.

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 17 December 1996 (Table 4 and Appendix C). The shallow zone groundwater elevations measured for this quarter ranged from 14.34 feet below mean sea level (MSL) to 15.64 feet below MSL, reflecting a rise in groundwater elevations of about 0.30 feet since the last quarter. 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 15.34 and 15.21 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). Toluene was also detected in well DAC-P1 at 610 µg/L. 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 increased in the shallow zone upgradient or cross gradient wells WCC-2S and WCC-11S. Both contaminants are within historical ranges at concentrations of 120 to 170 µg/L of TCE and 28 to 30 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 a 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-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 in samples collected from wells WCC-5S, WCC-9S, WCC-1D, and WCC-3D at 2.0, 1.5, 1.2, and 1.1 µg/L, respectively.

- Analytical data from the equipment rinsate blank, sample duplicates, trip blank, 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
FOURTH QUARTER, 1996
DOUGLAS AIRCRAFT C-6 FACILITY
TORRANCE, CALIFORNIA
K/J 944016.02

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[2]	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
5. Well WCC-10S was covered or destroyed, and was not sampled in December 1996

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TABLES

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH 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-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
	12/18/96	2,600/2,600	<50/<50	<50/<50	2,200/2,300	<500/<500	<50/<50	<50/<50	<50/<50	<50/<50	<50/<50	<500/<500

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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-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
	12/18/96	30	<2	<2	120	<20	2.2	<2	<2	<2	<2	<20

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TABLE 2

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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	<5,000	6,300	860	<500	<500	29,000	<5,000
	12/19/96	16,000	380	2,300	<250	<2,500	4,100	460	<250	<250	20,000	<2,500

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TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
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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-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
	12/18/96	780	<25	<25	960	<250	<25	<25	<25	<25	<25	<250

BOE-C6-0112683

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH 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-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
	12/17/96	10	<1	<1	2.4	<10	<1	<1	<1	<1	<1	<10

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TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH 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
	12/19/96	7,000/8,300	<100/<100	680/820	2,200/2,600	<1,000/<1,000	880/1,000	110/130	<100/<100	<100/<100	2,600/3,000	<1,000/<1,000

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TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH 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
	12/18/96	99	<2	<2	130	<20	<2	<2	<2	<2	<2	<20

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TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH 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
	12/18/96	3,000	<50	61	2,000	<500	<50	<50	<50	<50	<50	<500

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TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH 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
	12/17/96	2.8	<1	<1	18	<10	2.8	<1	3.5	<1	<1	<10

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TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH 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
	12/18/96	Well has been covered or destroyed			-	-	-	-	-	-	-	-

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TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH 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
	12/18/96	28	<2	<2	170	<20	6.1	<2	<2	<2	<2	<20

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TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH 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
	12/18/96	43	16	<2	150	<20	2.5	<2	2.0	<2	<2	<20

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TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH 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
	12/19/96	<500	<500	<500	15,000	<5,000	<500	<500	<500	<500	610	<5,000

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TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH 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
	12/18/96	<1	<1	<1	3.5	<10	1.4	<1	<1	<1	<1	<10

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TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MAJOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH 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
	12/19/96	97	1.3	67	42	<10	5.4	<1	<1	<1	20	<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
FOURTH 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
	12/18/96	<500/<500	<50/<50	<50/<50	<50/<50	<50/<50	<50/<50	<50/<50	<250/<250	<50/<50	<50/<50	<50/<50

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TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH 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
	12/18/96	<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
FOURTH 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
	12/19/96	<2,500	<250	<250	<250	<250	<250	<250	<1,200	<250	<250	<250

BOE-C6-0112697

TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH 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
	12/18/96	<250	<25	<25	<25	<25	<25	<25	<120	<25	<25	<25

BOE-C6-0112698

TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH 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
	12/17/96	<10	<1	<1	<1	<1	<1	<1	<5	<1	<1	2.0

BOE-C6-0112699

TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH 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
	12/19/96	<1,000/<1,000	<100/<100	<100/<100	<100/<100	<100/<100	<100/<100	<100/<100	<500/<500	<100/<100	<100/<100	<100/<100

BOE-C6-0112700

TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH 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
	12/18/96	<20	<2	<2	<2	<2	<2	<2	<10	<2	<2	<2

BOE-C6-0112701

TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH 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
	12/18/96	<500	<50	<50	<50	<50	<50	<50	<250	<50	<50	<50

BOE-C6-0112702

TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH 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
	12/17/96	<10	<1	<1	<1	<1	<1	<1	<5	<1	<1	1.5

BOE-C6-0112703

TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH 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
	12/18/96	Well has been covered or destroyed			-	-	-	-	-	-	-	-

BOE-C6-0112704

TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH 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
	12/18/96	<20	<2	<2	<2	<2	<2	<2	<10	<2	<2	<2

BOE-C6-0112705

TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH 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
	12/18/96	<20	<2	<2	<2	<2	<2	<2	<10	<2	<2	<2

BOE-C6-0112706

TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH 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
	12/19/96	<5,000	<500	<500	<500	<500	<500	<500	<2,500	<500	<500	<500

BOE-C6-0112707

TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH 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
	12/18/96	<10	<1	<1	<1	<1	<1	<1	<5	<1	<1	1.2

BOE-C6-0112708

TABLE 3

SUMMARY OF GROUNDWATER ANALYTICAL DATA - MINOR CONSTITUENTS
GROUNDWATER MONITORING DATA SUMMARY REPORT
FOURTH 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
	12/19/96	<10	<1	<1	<1	<1	<1	<1	<5	<1	<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-C6-0112709

TABLE 4

SUMMARY OF GROUNDWATER ELEVATION DATA
FOURTH 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)									
		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	12/18/96
WCC-1S	50.7	-17.25	-17.12	-17.12	-16.53	-16.27	-16.05	-15.80	-15.47	-15.36	-15.03
WCC-2S	50.59	-17.2	-17.17	-17.08	-16.37	-16.19	-15.86	-15.77	-15.26	-15.18	-14.82
WCC-3S	51.19	-17.31	-17.28	-17.22	-16.58	-16.37	-16.06	-15.93	-15.41	-15.41	-15.11
WCC-4S	49.69	-17.37	-17.31	-17.23	-16.61	-16.38	-16.16	-17.02	-15.56	-15.49	-15.19
WCC-5S	48.22	-17.33	-17.25	-17.19	-16.56	-16.35	-16.14	-16.02	-15.54	-15.47	-15.22
WCC-6S	50.95	NM[3]	-17.45	-17.36	16.75	-16.64[4]	-16.30	-16.17	-15.76	-15.65	-15.35
WCC-7S	48.29	-17.8	-17.74	-17.54	-17.03	-16.82	-16.59	-16.46	-16.01	-15.95	-15.64
WCC-8S	50.56	-17.14	-17.12	-17.29	-16.42	-16.16	-15.89	-15.76	-15.34	-15.27	-14.99
WCC-9S	47.01	-19.08	-17.51	-17.41	-16.79	-16.64	-16.39	-16.49	-15.86	-15.76	-15.47
WCC-10S	51.12	-17.03	-16.97	-16.56	-16.05	-15.89	-15.54	-15.22	-14.77	-14.68	NA
WCC-11S	49.97	-16.58	-16.63	-16.48	-15.83	-15.59	-15.35	-15.19	-14.71	-14.64	-14.34
WCC-12S	46.92	-17.79	-17.67	-17.63	-17.00	-16.79	-16.54	-16.40	-15.96	-15.88	-15.56
DAC-P1	52.44	-16.48	-16.25	-16.41	-15.94	-15.66	-15.66	-15.40	-15.02	-14.88	-14.67
WCC-1D	50.45	-17.66	-17.55	-17.36	-16.79	-16.60	-16.31	-16.15	-15.73	-15.65	-15.34
WCC-3D	51.18	-17.47	-17.42	-17.27	-16.67	-16.47	-16.17	-15.95	-15.57	-15.5	-15.21
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	-18.91	NA	NA	NA	NA	NA	NA
MW-19[5]	46.55	NA	NA	NA	-18.06	NA	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-C6-0112710

TABLE 4

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

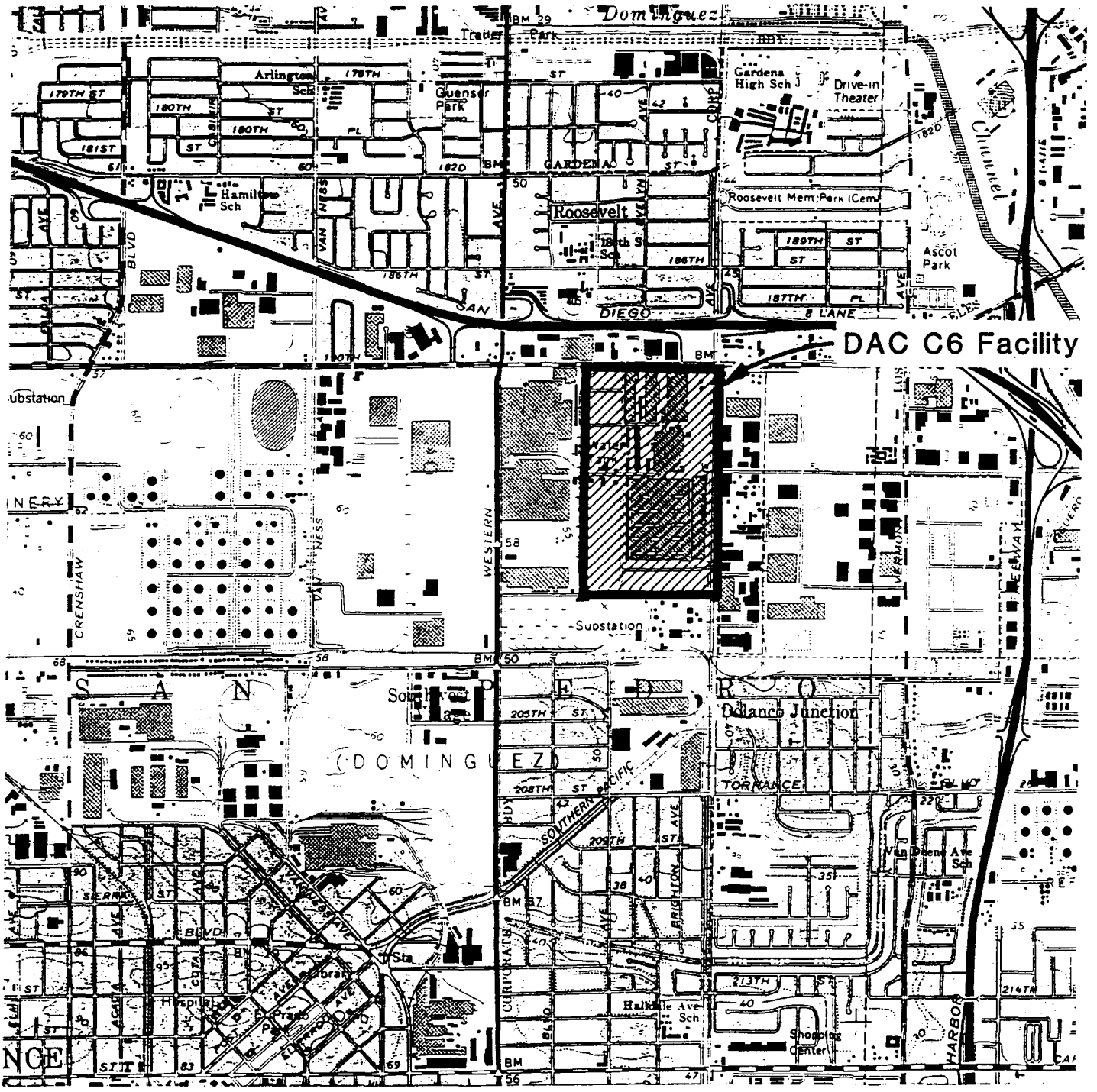
Observation Well	Reference Point[1] Elevation (Feet Above MSL)[2]	Water Level Elevation (Feet Above Mean Sea Level)										
		11/13/87[3]	10/18/89[4]	6/15/92	9/21/92	1/5/93	4/9/93	6/7/93	8/24/93	11/18/93	2/23/94	6/10/94
WCC-1S	50.7	-21.63	-19.48	-19.2	-19.42	-19.34	-18.79	-18.75	-18.25	-18	-17.61	-17.23
WCC-2S	50.59	-19.72	-19.06	-19.15	-19.41	-19.51	-18.64	-18.63	-18.15	-17.87	-17.49	-17.07
WCC-3S	51.19	-21.56	-19.42	-19.24	-19.52	-19.73	-18.83	-18.82	-18.36	-18.01	-17.67	-17.19
WCC-4S	49.69	-21.77	-19.59	-19.22	-19.49	-19.34	-18.86	-18.78	-18.37	-18.16	-17.77	-17.32
WCC-5S	48.22	NA[5]	-19.7	-19.13	-19.42	-19.32	-18.83	-18.78	-18.38	-18.13	-17.78	-17.33
WCC-6S	50.95	NA	-19.7	-19.4	-19.64	-19.5	-19.03	-18.97	-18.55	-18.32	-17.92	-17.48
WCC-7S	48.29	NA	-20.07	-19.63	-19.93	-19.76	-19.3	-19.23	-18.83	-18.6	-18.22	-17.82
WCC-8S	50.56	NA	-19.35	-19.11	-19.34	-19.19	-18.69	-18.61	-18.19	-17.89	-17.49	-17.11
WCC-9S	47.01	NA	-20.07	-19.44	-19.66	-19.56	-19.09	-19.09	-18.69	-18.42	-18.09	-18.63
WCC-10S	51.12	NA	-18.42	-18.94	-19.33	-19.1	-18.42	-18.33	-17.83	-17.54	-17.07	-16.67
WCC-11S	49.97	NA	NA	-17.62	-18.81	-18.69	-18.13	-18.04	-17.6	-17.36	-16.96	-16.45
WCC-12S	46.92	NA	NA	-19.6	-19.9	-19.74	-19.26	-19.2	-18.78	-18.58	-18.13	-17.74
DAC-P1	52.44	NA	NA	-17.76	-17.88	-18.02	-17.46	-17.38	-17.03	-16.76	-16.74	-16.6
WCC-1D	50.45	NA	-19.51	-19.55	-19.92	-19.61	-19.1	-19	-18.53	-18.34	-17.83	-17.47
WCC-3D	51.18	NA	-19.38	-19.39	-19.71	-20.52	-18.87	-18.85	-18.4	-18.18	-18	-17.39
MW-8[6]	49.09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA[6]	NA
MW-9[6]	48.67	NA	NA	NA	NA	NA	NA	-20.58	NA	NA	NA	NA
MW-18[6]	50.29	NA	NA	NA	NA	NA	NA	-20.88	NA	NA	NA	NA
MW-19[6]	46.55	NA	NA	NA	NA	NA	NA	-20.13	NA	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-C6-0112711

FIGURES



0 1,000 2,000 FEET

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

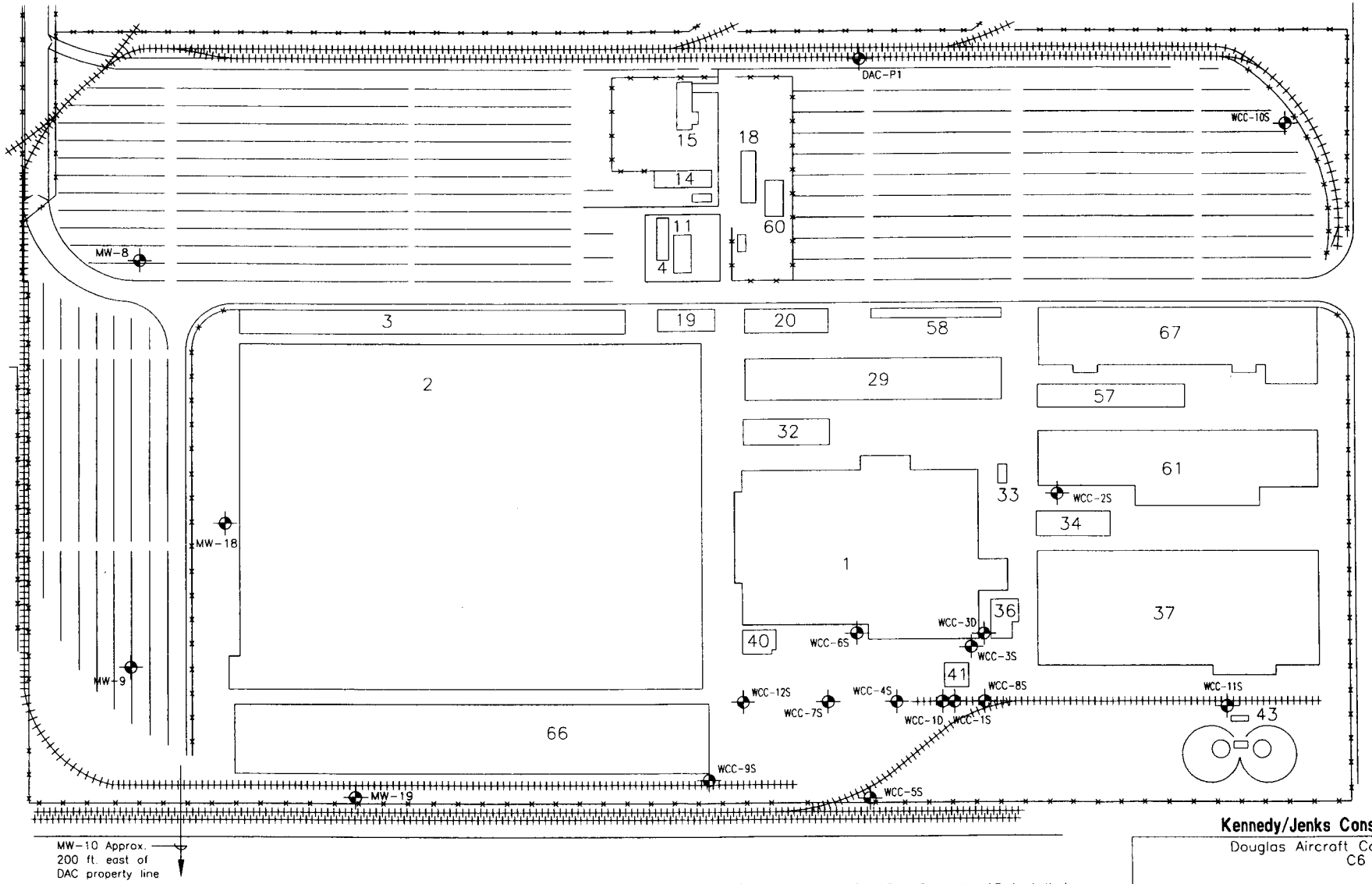
Kennedy/Jenks Consultants

Douglas Aircraft Company
C6 Facility

Site Vicinity Map

January 1997
K/J 944016.02

Figure 1



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

2) Well WCC-10S was covered or destroyed, and was not sampled.

LEGEND

WCC-1S Observation Well Location, Designation

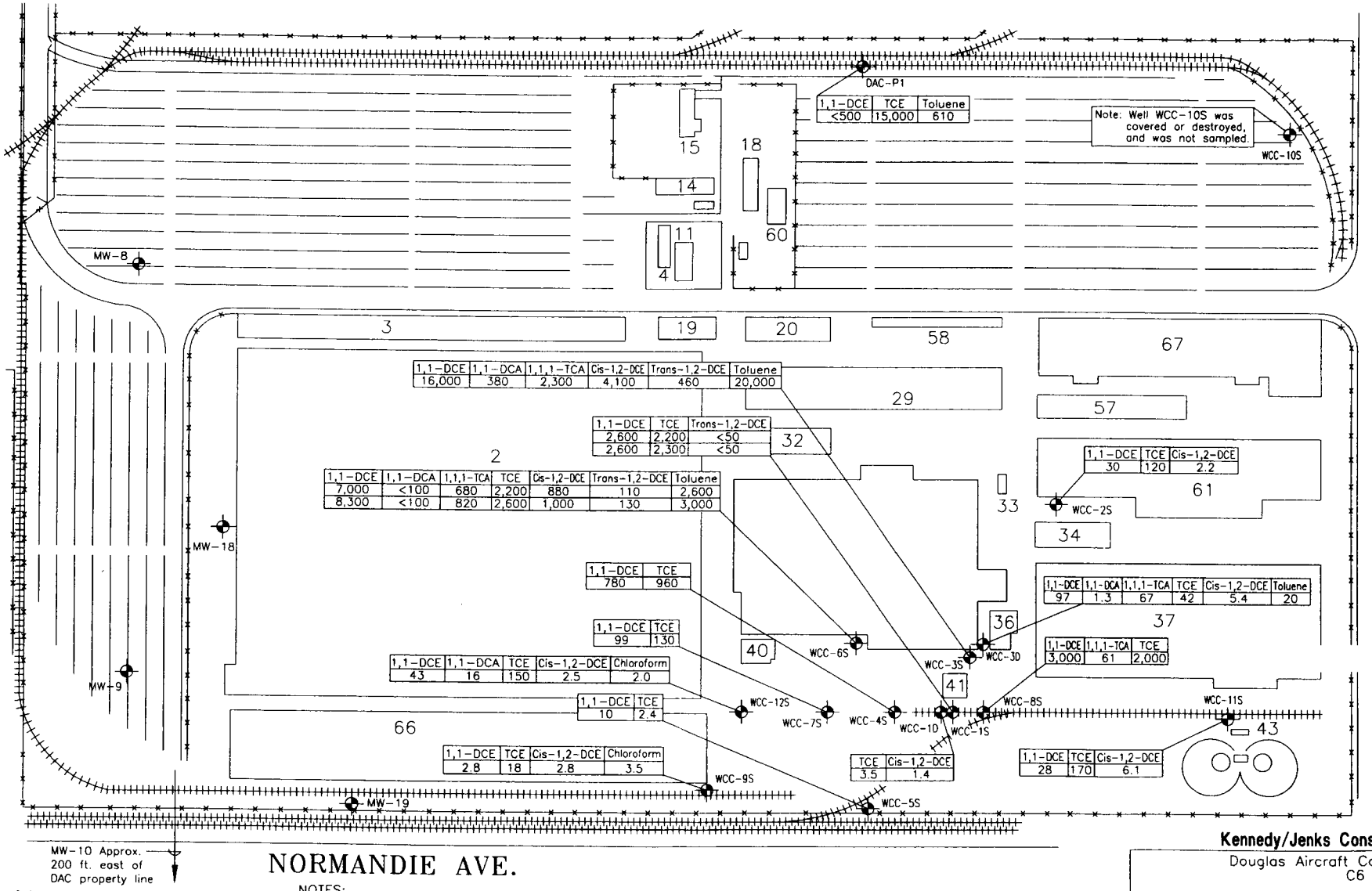
Kennedy/Jenks Consultants

Douglas Aircraft Company
C6 Facility

Groundwater Observation Well Locations

January 1997
K/J 944016.02

Figure 2



NOTES:

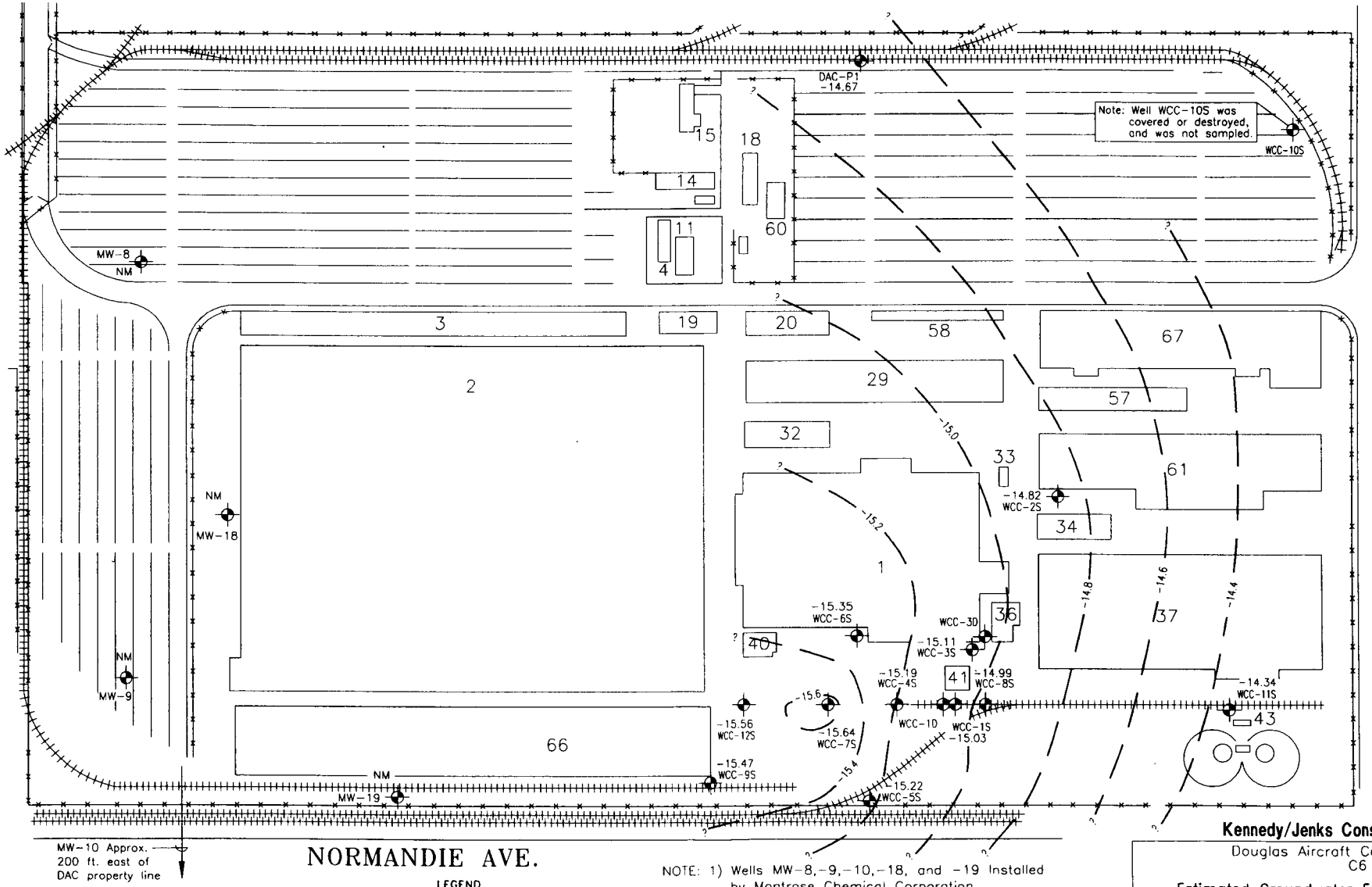
1. Samples Analyzed by EPA Method 8240/8260
2. All Results Reported in ug/l (ppb)
3. Wells MW-8,-9,-10,-18 and -19 Installed by Montrose Chemical Corporation and are not sampled by Douglas Aircraft Co.
4. Duplicate samples were analyzed for wells WCC-1S and WCC-6S.
5. <5=compound not detected at a quantitation 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 December 1996 Sampling Event

January 1997
K/J 944016.02
Figure 3



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

N

0 200

Scale in Feet

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.

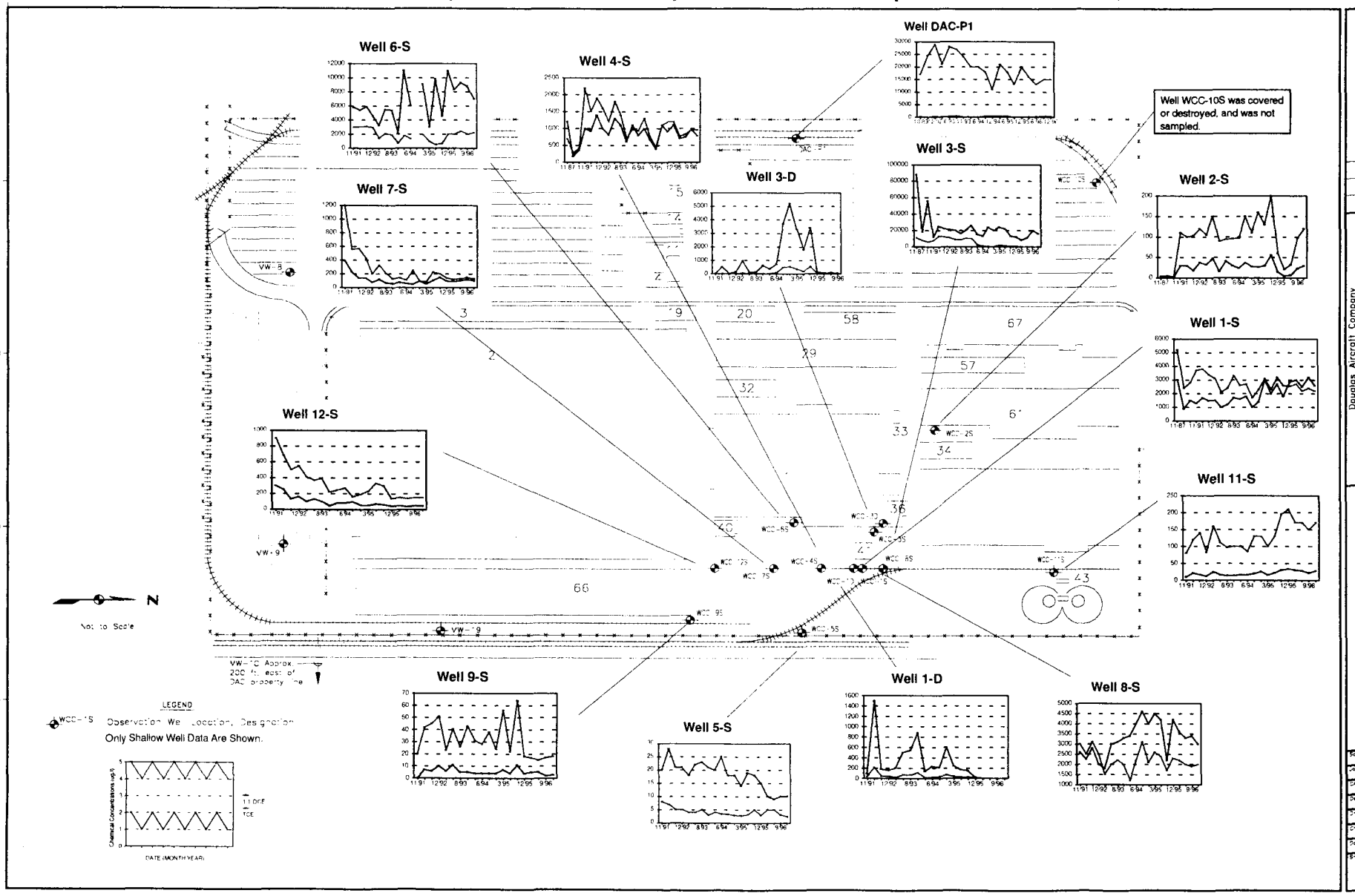
Kennedy/Jenks Consultants

Douglas Aircraft Company
C6 Facility

Estimated Groundwater Elevation Contour Map, Shallow Zone, December 1996

January 1997
K/J 944016.02

Figure 4



BOE-C6-0112717

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

January 9, 1997

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

LIMS NO.: 123721-0001/0012
DATE SAMPLED: 17/18-DEC-1996
DATE SAMPLE REC'D: 18-DEC-1996
PROJECT: McDONNELL DOUGLAS GROUNDWATER

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 December 31, 1996 at 12:10 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.

TABLE OF CONTENTS

LIMS # 123721

Cover Letter 1

LIMS Report Key 2

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Narrative 4

Chain-of-Custody Records and Sample Description Information

Analytical Results Summary (LIMS Report)

A. LIMS Datasheets
B. QC Summaries

CASE NARRATIVE

LIMS # 123721

I. CONDITION UPON RECEIPT

The samples were not received in intact. The temperature of the cooler was 3.5°C

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 date/time, and requested tests.

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.

MS/MSD recoveries for trichloroethene in MS Run 27 DEC 96-AC could not be calculated due to high constituent levels in the sample.

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

QUA-4124-1

Quanterra Environmental Services

Client	Project Manager	Date	Chain Of Custody Number
Kennedy / Jenks	Russ Purcell	12/17/96	61762
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
2151 Mickelson Dr. Ste. 100	(714) 261-1577	123721	

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
WCC55-17	12/17/96	1450	X											X	-0001
WCC95-17	"	1602	X											X	-0002
~~Travel Blank~~ Included with 12/18/96 samples															

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 [X] 7 Days [ ] 14 Days [ ] 21 Days [ ] Other _____

QC Requirements (Specify)

Relinquished By	Date	Time	Received By	Date	Time
1. [signature]	12/18/96	1925	1. [signature]	12-19-96	1925
2.			2.		
3.			3.		

Comments

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

BOE-C6-0112723

Chain of Custody Record

Quanterra Environmental Services

QUA-4124-1

Client	Project Manager	Date	Chain Of Custody Number
Kennedy / Jenks	Russ Purcell	12/18/96	61761
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	
2151 Mickelson Dr. Ste. 100	(714) 261-1577	123721	Page 1 of 1

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
WCC10-17	12/18/96	1006	X											X	-0003
WCC25-17		1107													-0004
WCC115-17		1206													-0005
WCC125-17		1308													-0006
WCC75-17		1405													-0007
WCC85-17		1450													-0008
WCC45-17		1548													-0009
WCC15-17		1650													-0010
DW-121896		—													-0011
TB-121896		—													-0012

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 [X] 7 Days [ ] 14 Days [ ] 21 Days [ ] Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	12/18/96	1925	1. Received By	12-18-96	1925
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

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

BOE-C6-0112724

Quanterra
Environmental Services

SAMPLE DESCRIPTION INFORMATION
for
Kennedy/Jenks Consultants

Lab ID	Client ID	Matrix	Sampled Date	Sampled Time	Received Date
123721-0001-SA	WCC5S-17	WATER	17 DEC 96	14:50	18 DEC 96
123721-0002-SA	WCC9S-17	WATER	17 DEC 96	16:02	18 DEC 96
123721-0003-SA	WCC1D-17	WATER	18 DEC 96	10:06	18 DEC 96
123721-0004-SA	WCC2S-17	WATER	18 DEC 96	11:07	18 DEC 96
123721-0005-SA	WCC11S-17	WATER	18 DEC 96	12:06	18 DEC 96
123721-0006-SA	WCC12S-17	WATER	18 DEC 96	13:08	18 DEC 96
123721-0007-SA	WCC7S-17	WATER	18 DEC 96	14:05	18 DEC 96
123721-0008-SA	WCC8S-17	WATER	18 DEC 96	14:50	18 DEC 96
123721-0009-SA	WCC4S-17	WATER	18 DEC 96	15:48	18 DEC 96
123721-0010-SA	WCC1S-17	WATER	18 DEC 96	16:50	18 DEC 96
123721-0011-SA	DW-121896	WATER	18 DEC 96		18 DEC 96
123721-0012-TB	TB-121896	WATER-QA	18 DEC 96		18 DEC 96

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: WCC5S-17
LAB ID: 123721-0001-SA
Matrix: WATER Sampled: 17 DEC 96 Received: 18 DEC 96
Authorized: 19 DEC 96 Prepared: 23 DEC 96 Analyzed: 23 DEC 96
Instrument: GC/MS-MC 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	2.4		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	2.0		1.0	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L
1,2,3-Trichloropropane	ND		1.0	ug/L
n-Propylbenzene	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-17		
LAB ID:	123721-0001-SA		
Matrix:	WATER	Sampled: 17 DEC 96	Received: 18 DEC 96
Authorized:	19 DEC 96	Prepared: 23 DEC 96	Analyzed: 23 DEC 96
Instrument:	GC/MS-MC	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	107	%	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: WCC9S-17
LAB ID: 123721-0002-SA
Matrix: WATER Sampled: 17 DEC 96 Received: 18 DEC 96
Authorized: 19 DEC 96 Prepared: 23 DEC 96 Analyzed: 23 DEC 96
Instrument: GC/MS-MC 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	2.8		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	2.8		1.0	ug/L
Chloroform	3.5		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	18		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	1.5		1.0	ug/L
1,1,2,2-Tetrachloroethane	ND		1.0	ug/L
1,2,3-Trichloropropane	ND		1.0	ug/L
n-Propylbenzene	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-17
LAB ID: 123721-0002-SA
Matrix: WATER Sampled: 17 DEC 96 Received: 18 DEC 96
Authorized: 19 DEC 96 Prepared: 23 DEC 96 Analyzed: 23 DEC 96
Instrument: GC/MS-MC 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	111	%	80 - 120
Toluene-d8	103	%	88 - 110
Bromofluorobenzene	99	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: WCC1D-17
LAB ID: 123721-0003-SA
Matrix: WATER Sampled: 18 DEC 96 Received: 18 DEC 96
Authorized: 19 DEC 96 Prepared: 23 DEC 96 Analyzed: 23 DEC 96
Instrument: GC/MS-MC 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	3.5		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	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-Propylbenzene	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: WCC1D-17
LAB ID: 123721-0003-SA
Matrix: WATER Sampled: 18 DEC 96 Received: 18 DEC 96
Authorized: 19 DEC 96 Prepared: 23 DEC 96 Analyzed: 23 DEC 96
Instrument: GC/MS-MC 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	110	%	80 - 120
Toluene-d8	101	%	88 - 110
Bromofluorobenzene	96	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: WCC2S-17
LAB ID: 123721-0004-SA
Matrix: WATER Sampled: 18 DEC 96 Received: 18 DEC 96
Authorized: 19 DEC 96 Prepared: 27 DEC 96 Analyzed: 27 DEC 96
Instrument: GC/MS-MC Dilution: 2.0

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	30		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	2.2		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	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-Propylbenzene	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:	WCC2S-17		
LAB ID:	123721-0004-SA		
Matrix:	WATER	Sampled: 18 DEC 96	Received: 18 DEC 96
Authorized:	19 DEC 96	Prepared: 27 DEC 96	Analyzed: 27 DEC 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	97	%	80 - 120
Toluene-d8	98	%	88 - 110
Bromofluorobenzene	93	%	86 - 115

ND = Not Detected

Quanterra
Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: WCC11S-17
LAB ID: 123721-0005-SA
Matrix: WATER Sampled: 18 DEC 96 Received: 18 DEC 96
Authorized: 19 DEC 96 Prepared: 27 DEC 96 Analyzed: 27 DEC 96
Instrument: GC/MS-MC Dilution: 2.0

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	28		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	6.1		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	170		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-Propylbenzene	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:	WCC11S-17		
LAB ID:	123721-0005-SA		
Matrix:	WATER	Sampled: 18 DEC 96	Received: 18 DEC 96
Authorized:	19 DEC 96	Prepared: 27 DEC 96	Analyzed: 27 DEC 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	111	%	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: WCC12S-17
LAB ID: 123721-0006-SA
Matrix: WATER Sampled: 18 DEC 96 Received: 18 DEC 96
Authorized: 19 DEC 96 Prepared: 27 DEC 96 Analyzed: 27 DEC 96
Instrument: GC/MS-MC Dilution: 2.0

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	43		2.0	ug/L
Methylene chloride	ND		2.0	ug/L
trans-1,2-Dichloroethene	ND		2.0	ug/L
1,1-Dichloroethane	16		2.0	ug/L
2,2-Dichloropropane	ND		2.0	ug/L
cis-1,2-Dichloroethene	2.5		2.0	ug/L
Chloroform	2.0		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-Propylbenzene	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-17		
LAB ID:	123721-0006-SA		
Matrix:	WATER	Sampled: 18 DEC 96	Received: 18 DEC 96
Authorized:	19 DEC 96	Prepared: 27 DEC 96	Analyzed: 27 DEC 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	109	%	80 - 120
Toluene-d8	99	%	88 - 110
Bromofluorobenzene	95	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: WCC7S-17
LAB ID: 123721-0007-SA
Matrix: WATER Sampled: 18 DEC 96 Received: 18 DEC 96
Authorized: 19 DEC 96 Prepared: 27 DEC 96 Analyzed: 27 DEC 96
Instrument: GC/MS-MC Dilution: 2.0

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	99		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	130		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-Propylbenzene	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:	WCC7S-17		
LAB ID:	123721-0007-SA		
Matrix:	WATER	Sampled: 18 DEC 96	Received: 18 DEC 96
Authorized:	19 DEC 96	Prepared: 27 DEC 96	Analyzed: 27 DEC 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	112	%	80 - 120
Toluene-d8	100	%	88 - 110
Bromofluorobenzene	95	%	86 - 115

ND = Not Detected

Quanterra
Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: WCC8S-17
LAB ID: 123721-0008-SA
Matrix: WATER Sampled: 18 DEC 96 Received: 18 DEC 96
Authorized: 19 DEC 96 Prepared: 27 DEC 96 Analyzed: 27 DEC 96
Instrument: GC/MS-MC Dilution: 50

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	3000		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	61		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	2000		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-Propylbenzene	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:	WCC8S-17		
LAB ID:	123721-0008-SA		
Matrix:	WATER	Sampled: 18 DEC 96	Received: 18 DEC 96
Authorized:	19 DEC 96	Prepared: 27 DEC 96	Analyzed: 27 DEC 96
Instrument:	GC/MS-MC	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	109	%	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:	WCC4S-17		
LAB ID:	123721-0009-SA		
Matrix:	WATER	Sampled: 18 DEC 96	Received: 18 DEC 96
Authorized:	19 DEC 96	Prepared: 28 DEC 96	Analyzed: 28 DEC 96
Instrument:	GC/MS-MC	Dilution: 25	

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	780		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-Propylbenzene	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

Volatile Organic Compounds
Method 8260

(cont.)

Client Name:	Kennedy/Jenks Consultants		
Client ID:	WCC4S-17		
LAB ID:	123721-0009-SA		
Matrix:	WATER	Sampled: 18 DEC 96	Received: 18 DEC 96
Authorized:	19 DEC 96	Prepared: 28 DEC 96	Analyzed: 28 DEC 96
Instrument:	GC/MS-MC	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	96	%	80 - 120
Toluene-d8	97	%	88 - 110
Bromofluorobenzene	91	%	86 - 115

ND = Not Detected

Quanterra
Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: WCC1S-17
LAB ID: 123721-0010-SA
Matrix: WATER Sampled: 18 DEC 96 Received: 18 DEC 96
Authorized: 19 DEC 96 Prepared: 28 DEC 96 Analyzed: 28 DEC 96
Instrument: GC/MS-MC Dilution: 50

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	2600		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	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	2200		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-Propylbenzene	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-17		
LAB ID:	123721-0010-SA		
Matrix:	WATER	Sampled: 18 DEC 96	Received: 18 DEC 96
Authorized:	19 DEC 96	Prepared: 28 DEC 96	Analyzed: 28 DEC 96
Instrument:	GC/MS-MC	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	103	%	80 - 120
Toluene-d8	100	%	88 - 110
Bromofluorobenzene	93	%	86 - 115

ND = Not Detected

Quanterra
Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: DW-121896
LAB ID: 123721-0011-SA
Matrix: WATER Sampled: 18 DEC 96 Received: 18 DEC 96
Authorized: 19 DEC 96 Prepared: 28 DEC 96 Analyzed: 28 DEC 96
Instrument: GC/MS-MC Dilution: 50

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	2600		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	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	2300		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-Propylbenzene	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:	DW-121896		
LAB ID:	123721-0011-SA		
Matrix:	WATER	Sampled: 18 DEC 96	Received: 18 DEC 96
Authorized:	19 DEC 96	Prepared: 28 DEC 96	Analyzed: 28 DEC 96
Instrument:	GC/MS-MC	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	109	%	80 - 120
Toluene-d8	100	%	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-121896
LAB ID: 123721-0012-TB
Matrix: WATER-QA Sampled: 18 DEC 96 Received: 18 DEC 96
Authorized: 19 DEC 96 Prepared: 23 DEC 96 Analyzed: 23 DEC 96
Instrument: GC/MS-MC 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-Propylbenzene	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: TB-121896
LAB ID: 123721-0012-TB
Matrix: WATER-QA Sampled: 18 DEC 96 Received: 18 DEC 96
Authorized: 19 DEC 96 Prepared: 23 DEC 96 Analyzed: 23 DEC 96
Instrument: GC/MS-MC 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	110	%	80 - 120
Toluene-d8	105	%	88 - 110
Bromofluorobenzene	98	%	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

January 9, 1997

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

LIMS NO.: 123741-0001/0006
DATE SAMPLED: 19-DEC-1996
DATE SAMPLE REC'D: 19-DEC-1996
PROJECT: McDONNELL DOUGLAS GROUNDWATER

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 January 2, 1997 at 4:05 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.

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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 # 123741

I. CONDITION UPON RECEIPT

The samples were not received in intact. The temperature of the cooler was 3.5°C

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/date, and requested tests.

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.

MS/MSD recoveries for 1,1-dichloroethene and toluene in MS Run 30 DEC 96-AD could not be calculated due to high constituent levels in the sample.

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

QUA-4124-1

Quanterra Environmental Services

Client	Project Manager	Date	Chain Of Custody Number
Kennedy / Jenks	Russ Purcell	12/19/96	58022
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	
2151 Mickelson Dr. Ste 100	714-261-1577	123741	Page 1 of 1

City	State	Zip Code	Site Contact	Lab Contact
Irvine	CA.	92715	Shane Scrimshire	Pat Ovey

Project Name: DAC

Carrier/Waybill Number:

Contract/Purchase Order/Quote No.:

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

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
WCC3D-17	12/19/96	936	X							X				X	-0001
WCC3S-17		1036	↓							↓				↓	-0002
WCC6S-17		1125	↓							↓				↓	-0003
~~WCC~~ DACP1-17		1250	↓							↓				↓	-0004
DW-121996		—	↓							↓				↓	-0005
EB-121996		1310	↓							↓				↓	-0006

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	12/19/96	1420	1. Received By	121996	1420
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

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

BOE-C6-0112754

Quanterra
Environmental Services

SAMPLE DESCRIPTION INFORMATION
for
Kennedy/Jenks Consultants

Lab ID	Client ID	Matrix	Sampled Date	Sampled Time	Received Date
123741-0001-SA	WCC3D-17	WATER	19 DEC 96	09:36	19 DEC 96
123741-0002-SA	WCC3S-17	WATER	19 DEC 96	10:36	19 DEC 96
123741-0003-SA	WCC6S-17	WATER	19 DEC 96	11:25	19 DEC 96
123741-0004-SA	DACPI-17	WATER	19 DEC 96	12:50	19 DEC 96
123741-0005-SA	DW-121996	WATER	19 DEC 96		19 DEC 96
123741-0006-EB	EB-121996	WATER-QA	19 DEC 96	13:10	19 DEC 96

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: WCC3D-17
LAB ID: 123741-0001-SA
Matrix: WATER Sampled: 19 DEC 96 Received: 19 DEC 96
Authorized: 19 DEC 96 Prepared: 30 DEC 96 Analyzed: 30 DEC 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	97		1.0	ug/L
Methylene chloride	ND		1.0	ug/L
trans-1,2-Dichloroethene	ND		1.0	ug/L
1,1-Dichloroethane	1.3		1.0	ug/L
2,2-Dichloropropane	ND		1.0	ug/L
cis-1,2-Dichloroethene	5.4		1.0	ug/L
Chloroform	ND		1.0	ug/L
Bromochloromethane	ND		1.0	ug/L
1,1,1-Trichloroethane	67		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	42		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	20		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-Propylbenzene	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:	WCC3D-17		
LAB ID:	123741-0001-SA		
Matrix:	WATER	Sampled: 19 DEC 96	Received: 19 DEC 96
Authorized:	19 DEC 96	Prepared: 30 DEC 96	Analyzed: 30 DEC 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	103	%	80 - 120
Toluene-d8	106	%	88 - 110
Bromofluorobenzene	102	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: WCC3S-17
LAB ID: 123741-0002-SA
Matrix: WATER Sampled: 19 DEC 96 Received: 19 DEC 96
Authorized: 19 DEC 96 Prepared: 30 DEC 96 Analyzed: 30 DEC 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	16000		250	ug/L
Methylene chloride	ND		250	ug/L
trans-1,2-Dichloroethene	460		250	ug/L
1,1-Dichloroethane	380		250	ug/L
2,2-Dichloropropane	ND		250	ug/L
cis-1,2-Dichloroethene	4100		250	ug/L
Chloroform	ND		250	ug/L
Bromochloromethane	ND		250	ug/L
1,1,1-Trichloroethane	2300		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	ND		250	ug/L
1,2-Dichloropropane	ND		250	ug/L
Bromodichloromethane	ND		250	ug/L
Dibromomethane	ND		250	ug/L
Toluene	20000		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-Propylbenzene	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: WCC3S-17
LAB ID: 123741-0002-SA
Matrix: WATER Sampled: 19 DEC 96 Received: 19 DEC 96
Authorized: 19 DEC 96 Prepared: 30 DEC 96 Analyzed: 30 DEC 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	104	%	80 - 120
Toluene-d8	103	%	88 - 110
Bromofluorobenzene	100	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: WCC6S-17
LAB ID: 123741-0003-SA
Matrix: WATER Sampled: 19 DEC 96 Received: 19 DEC 96
Authorized: 19 DEC 96 Prepared: 30 DEC 96 Analyzed: 30 DEC 96
Instrument: GC/MS-MD Dilution: 100

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	7000		100	ug/L
Methylene chloride	ND		100	ug/L
trans-1,2-Dichloroethene	110		100	ug/L
1,1-Dichloroethane	ND		100	ug/L
2,2-Dichloropropane	ND		100	ug/L
cis-1,2-Dichloroethene	880		100	ug/L
Chloroform	ND		100	ug/L
Bromochloromethane	ND		100	ug/L
1,1,1-Trichloroethane	680		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	2600		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-Propylbenzene	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

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Kennedy/Jenks Consultants
Client ID: WCC6S-17
LAB ID: 123741-0003-SA
Matrix: WATER Sampled: 19 DEC 96 Received: 19 DEC 96
Authorized: 19 DEC 96 Prepared: 30 DEC 96 Analyzed: 30 DEC 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	103	%	80 - 120
Toluene-d8	103	%	88 - 110
Bromofluorobenzene	101	%	86 - 115

ND = Not Detected

Quanterra
Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: DACPI-17
LAB ID: 123741-0004-SA
Matrix: WATER Sampled: 19 DEC 96 Received: 19 DEC 96
Authorized: 19 DEC 96 Prepared: 30 DEC 96 Analyzed: 30 DEC 96
Instrument: GC/MS-MD Dilution: 500

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	ND		500	ug/L
Methylene chloride	ND		500	ug/L
trans-1,2-Dichloroethene	ND		500	ug/L
1,1-Dichloroethane	ND		500	ug/L
2,2-Dichloropropane	ND		500	ug/L
cis-1,2-Dichloroethene	ND		500	ug/L
Chloroform	ND		500	ug/L
Bromochloromethane	ND		500	ug/L
1,1,1-Trichloroethane	ND		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	15000		500	ug/L
1,2-Dichloropropane	ND		500	ug/L
Bromodichloromethane	ND		500	ug/L
Dibromomethane	ND		500	ug/L
Toluene	610		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-Propylbenzene	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

Volatile Organic Compounds
Method 8260 (cont.)

Client Name: Kennedy/Jenks Consultants
Client ID: DACPI-17
LAB ID: 123741-0004-SA
Matrix: WATER Sampled: 19 DEC 96 Received: 19 DEC 96
Authorized: 19 DEC 96 Prepared: 30 DEC 96 Analyzed: 30 DEC 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	100	%	80 - 120
Toluene-d8	101	%	88 - 110
Bromofluorobenzene	96	%	86 - 115

ND = Not Detected

Quanterra
Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: DW-121996
LAB ID: 123741-0005-SA
Matrix: WATER Sampled: 19 DEC 96 Received: 19 DEC 96
Authorized: 19 DEC 96 Prepared: 31 DEC 96 Analyzed: 31 DEC 96
Instrument: GC/MS-MC Dilution: 100

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	8300		100	ug/L
Methylene chloride	ND		100	ug/L
trans-1,2-Dichloroethene	130		100	ug/L
1,1-Dichloroethane	ND		100	ug/L
2,2-Dichloropropane	ND		100	ug/L
cis-1,2-Dichloroethene	1000		100	ug/L
Chloroform	ND		100	ug/L
Bromochloromethane	ND		100	ug/L
1,1,1-Trichloroethane	820		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	2600		100	ug/L
1,2-Dichloropropane	ND		100	ug/L
Bromodichloromethane	ND		100	ug/L
Dibromomethane	ND		100	ug/L
Toluene	3000		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-Propylbenzene	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

Volatile Organic Compounds
Method 8260

(cont.)

Client Name: Kennedy/Jenks Consultants
Client ID: DW-121996
LAB ID: 123741-0005-SA
Matrix: WATER Sampled: 19 DEC 96 Received: 19 DEC 96
Authorized: 19 DEC 96 Prepared: 31 DEC 96 Analyzed: 31 DEC 96
Instrument: GC/MS-MC 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	107	%	80 - 120
Toluene-d8	104	%	88 - 110
Bromofluorobenzene	99	%	86 - 115

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: Kennedy/Jenks Consultants
Client ID: EB-121996
LAB ID: 123741-0006-EB
Matrix: WATER-QA Sampled: 19 DEC 96 Received: 19 DEC 96
Authorized: 19 DEC 96 Prepared: 31 DEC 96 Analyzed: 31 DEC 96
Instrument: GC/MS-MC 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-Propylbenzene	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: EB-121996
LAB ID: 123741-0006-EB
Matrix: WATER-QA Sampled: 19 DEC 96 Received: 19 DEC 96
Authorized: 19 DEC 96 Prepared: 31 DEC 96 Analyzed: 31 DEC 96
Instrument: GC/MS-MC 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	90	%	80 - 120
Toluene-d8	101	%	88 - 110
Bromofluorobenzene	88	%	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)
123721-0001-SA	AQUEOUS	8260-A		23 DEC 96-ACX	27 DEC 96-AC
123721-0002-SA	AQUEOUS	8260-A		23 DEC 96-ACX	27 DEC 96-AC
123721-0003-SA	AQUEOUS	8260-A		23 DEC 96-ACX	27 DEC 96-AC
123721-0004-SA	AQUEOUS	8260-A		27 DEC 96-ACX	27 DEC 96-AC
123721-0005-SA	AQUEOUS	8260-A		27 DEC 96-ACX	27 DEC 96-AC
123721-0006-SA	AQUEOUS	8260-A		27 DEC 96-ACX	27 DEC 96-AC
123721-0007-SA	AQUEOUS	8260-A		27 DEC 96-ACX	27 DEC 96-AC
123721-0008-SA	AQUEOUS	8260-A		27 DEC 96-ACX	27 DEC 96-AC
123721-0009-SA	AQUEOUS	8260-A		28 DEC 96-ACX	27 DEC 96-AC
123721-0010-SA	AQUEOUS	8260-A		28 DEC 96-ACX	27 DEC 96-AC
123721-0011-SA	AQUEOUS	8260-A		28 DEC 96-ACX	27 DEC 96-AC
123721-0012-TB	AQUEOUS	8260-A		23 DEC 96-ACX	27 DEC 96-AC

Quanterra Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 123721

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 28 DEC 96
QC Run: 28 DEC 96-ACX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	9.20	92	64-124
Benzene	10.0	10.6	106	67-127
Trichloroethene	10.0	10.2	102	60-120
Toluene	10.0	10.5	105	72-132
Chlorobenzene	10.0	10.8	108	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	11.2	112	80-120
Toluene-d8	10.0	9.89	99	88-110
Bromofluorobenzene	10.0	9.86	99	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 27 DEC 96
QC Run: 27 DEC 96-ACX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	9.10	91	64-124
Benzene	10.0	10.7	107	67-127
Trichloroethene	10.0	10.4	104	60-120
Toluene	10.0	10.6	106	72-132
Chlorobenzene	10.0	10.6	106	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	11.1	111	80-120
Toluene-d8	10.0	9.91	99	88-110
Bromofluorobenzene	10.0	9.80	98	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 23 DEC 96
QC Run: 23 DEC 96-ACX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	8.39	84	64-124
Benzene	10.0	10.3	103	67-127
Trichloroethene	10.0	9.82	98	60-120
Toluene	10.0	10.0	100	72-132
Chlorobenzene	10.0	10.2	102	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 (cont.)
Project: 123721

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	11.1	111	80-120
Toluene-d8	10.0	10.2	102	88-110
Bromofluorobenzene	10.0	9.90	99	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: 123721

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
Sample: 123721-0004
MS Run: 27 DEC 96-AC
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	29.7	52.6	51.1	20.0	114	107	2.9	64-124	25
Benzene	ND	23.8	21.1	20.0	119	106	12	67-127	25
Trichloroethene	118	142	146	20.0	NC	NC	NC	60-120	25
Toluene	ND	23.2	21.0	20.0	116	105	10	72-132	25
Chlorobenzene	ND	23.2	20.4	20.0	116	102	13	68-128	25

Surrogates	Sample %Recovery	%Recovery MS	%Recovery MSD	Acceptance Limit Recovery
1,2-Dichloroethane-d4	97	99	105	80-120
Toluene-d8	98	96	101	88-110
Bromofluorobenzene	93	90	96	86-115

NC = Not Calculated, calculation not applicable.
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: 123721

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 28 DEC 96-ACX Date Analyzed: 28 DEC 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	10.5	105	80-120
Toluene-d8	10.0	9.86	99	88-110
Bromofluorobenzene	10.0	9.19	92	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 27 DEC 96-ACX Date Analyzed: 27 DEC 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	10.3	103	80-120
Toluene-d8	10.0	9.65	96	88-110
Bromofluorobenzene	10.0	9.19	92	86-115

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 23 DEC 96-ACX Date Analyzed: 23 DEC 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	10.5	105	80-120
Toluene-d8	10.0	10.2	102	88-110
Bromofluorobenzene	10.0	9.80	98	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: 123721

Test: 8260-A
Matrix: AQUEOUS
QC Run: 23 DEC 96-ACX

Method 8260 - Volatile Organics

Date Analyzed: 23 DEC 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-Propylbenzene	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
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

ND = Not Detected

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 123721

Quanterra Environmental Services

Test: 8260-A Method 8260 - Volatile Organics (cont.)
Matrix: AQUEOUS
QC Run: 23 DEC 96-ACX Date Analyzed: 23 DEC 96

Analyte	Result	Units	Reporting Limit
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: 123721

Test: 8260-A
Matrix: AQUEOUS

Method 8260 - Volatile Organics (cont.)

QC Run: 27 DEC 96-ACX

Date Analyzed: 27 DEC 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-Propylbenzene	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
1,2,4-Trimethylbenzene	ND	ug/L	1.0
sec-Butylbenzene	ND	ug/L	1.0
Isopropyltoluene	ND	ug/L	1.0

ND = Not Detected

Quanterra Environmental Services

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 123721

Test: 8260-A Method 8260 - Volatile Organics (cont.)
Matrix: AQUEOUS

QC Run: 27 DEC 96-ACX Date Analyzed: 27 DEC 96

Analyte	Result	Units	Reporting Limit
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

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 123721

Quanterra Environmental Services

Test: 8260-A
Matrix: AQUEOUS

Method 8260 - Volatile Organics (cont.)

QC Run: 28 DEC 96-ACX

Date Analyzed: 28 DEC 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-Propylbenzene	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
1,2,4-Trimethylbenzene	ND	ug/L	1.0
sec-Butylbenzene	ND	ug/L	1.0
Isopropyltoluene	ND	ug/L	1.0

ND = Not Detected

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 123721

Quanterra Environmental Services

Test: 8260-A Method 8260 - Volatile Organics (cont.)
Matrix: AQUEOUS

QC Run: 28 DEC 96-ACX Date Analyzed: 28 DEC 96

Analyte	Result	Units	Reporting Limit
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)
123741-0001-SA	AQUEOUS	8260-A		30 DEC 96-ADX	30 DEC 96-AD
123741-0002-SA	AQUEOUS	8260-A		30 DEC 96-ADX	30 DEC 96-AD
123741-0003-SA	AQUEOUS	8260-A		30 DEC 96-BDX	30 DEC 96-AD
123741-0004-SA	AQUEOUS	8260-A		30 DEC 96-BDX	30 DEC 96-AD
123741-0005-SA	AQUEOUS	8260-A		31 DEC 96-BCX	30 DEC 96-AD
123741-0006-EB	AQUEOUS	8260-A		31 DEC 96-BCX	30 DEC 96-AD

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 123741

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS Date Analyzed: 31 DEC 96
QC Run: 31 DEC 96-BCX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	10.9	109	64-124
Benzene	10.0	10.3	103	67-127
Trichloroethene	10.0	10.2	102	60-120
Toluene	10.0	10.5	105	72-132
Chlorobenzene	10.0	9.61	96	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.94	99	80-120
Toluene-d8	10.0	10.1	101	88-110
Bromofluorobenzene	10.0	9.79	98	86-115

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

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	12.4	124	64-124
Benzene	10.0	11.2	112	67-127
Trichloroethene	10.0	10.6	106	60-120
Toluene	10.0	10.8	108	72-132
Chlorobenzene	10.0	10.4	104	68-128

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	10.3	103	80-120
Toluene-d8	10.0	10.3	103	88-110
Bromofluorobenzene	10.0	9.93	99	86-115

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

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	10.0	11.0	110	64-124
Benzene	10.0	10.4	104	67-127
Trichloroethene	10.0	10.2	102	60-120
Toluene	10.0	10.1	101	72-132
Chlorobenzene	10.0	10.5	105	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 (cont.)
Project: 123741

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	10.4	104	80-120
Toluene-d8	10.0	10.1	101	88-110
Bromofluorobenzene	10.0	10.0	100	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: 123741

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
Sample: 123741-0002
MS Run: 30 DEC 96-AD
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	15800	18100	17200	2500	NC	NC	NC	64-124	25
Benzene	ND	2770	2800	2500	111	112	1.1	67-127	25
Trichloroethene	ND	2800	2750	2500	112	110	1.8	60-120	25
Toluene	20400	23100	23200	2500	NC	NC	NC	72-132	25
Chlorobenzene	ND	2550	2650	2500	102	106	3.8	68-128	25

Surrogates	Sample %Recovery	%Recovery MS	%Recovery MSD	Acceptance Limit Recovery
1,2-Dichloroethane-d4	104	106	99	80-120
Toluene-d8	103	104	105	88-110
Bromofluorobenzene	100	103	109	86-115

NC = Not Calculated, calculation not applicable.
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: 123741

Category: 8260-A Volatile Organics, 8260
Matrix: AQUEOUS
QC Run: 31 DEC 96-BCX Date Analyzed: 31 DEC 96
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.86	99	80-120
Toluene-d8	10.0	9.84	98	88-110
Bromofluorobenzene	10.0	9.40	94	86-115

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

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	10.4	104	80-120
Toluene-d8	10.0	10.2	102	88-110
Bromofluorobenzene	10.0	9.77	98	86-115

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

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) SCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	10.0	9.41	94	80-120
Toluene-d8	10.0	10.3	103	88-110
Bromofluorobenzene	10.0	10.0	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: 123741

Test: 8260-A Method 8260 - Volatile Organics
Matrix: AQUEOUS
QC Run: 30 DEC 96-ADX Date Analyzed: 30 DEC 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-Propylbenzene	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
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

ND = Not Detected

Quanterra Environmental Services

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 123741

Test: 8260-A
Matrix: AQUEOUS
QC Run: 30 DEC 96-ADX

Method 8260 - Volatile Organics (cont.)

Date Analyzed: 30 DEC 96

Analyte	Result	Units	Reporting Limit
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

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 123741

Quanterra Environmental Services

Test: 8260-A
Matrix: AQUEOUS

Method 8260 - Volatile Organics (cont.)

QC Run: 30 DEC 96-BDX

Date Analyzed: 30 DEC 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-Propylbenzene	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
1,2,4-Trimethylbenzene	ND	ug/L	1.0
sec-Butylbenzene	ND	ug/L	1.0
Isopropyltoluene	ND	ug/L	1.0

ND = Not Detected

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 123741

Quanterra Environmental Services

Test: 8260-A Method 8260 - Volatile Organics (cont.)
Matrix: AQUEOUS

QC Run: 30 DEC 96-BDX Date Analyzed: 30 DEC 96

Analyte	Result	Units	Reporting Limit
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: 123741

Test: 8260-A
Matrix: AQUEOUS

Method 8260 - Volatile Organics (cont.)

QC Run: 31 DEC 96-BCX

Date Analyzed: 31 DEC 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-Propylbenzene	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
1,2,4-Trimethylbenzene	ND	ug/L	1.0
sec-Butylbenzene	ND	ug/L	1.0
Isopropyltoluene	ND	ug/L	1.0

ND = Not Detected

METHOD BLANK REPORT (cont.)
Volatile Organics by GC/MS
Project: 123741

Quanterra Environmental Services

Test: 8260-A Method 8260 - Volatile Organics (cont.)
Matrix: AQUEOUS

QC Run: 31 DEC 96-BCX Date Analyzed: 31 DEC 96

Analyte	Result	Units	Reporting Limit
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 Shane Scrimshire

Weather Clear

Temperature 75°F °F Max 68° °F Min

Work Hours 800 to 1710 Memos Issued

Photos ——

Special Conditions, Delays, Changes Could not Find well WCC-10S.

Accidents Damage ——

Sampling, Testing See notes.

Visitors to Site ——

Sheet 1 of 2

Date 12/17/96

Project DAC

K/J/C Job No. 944016.02

Work Report (Work done, Personnel/Equipment working)

800 Arrived at DAC. Demolition crews are removing buildings + other structures from north portion of property.
- Met with the Forman of demo activities + informed him that I would be on site purgeing + sampling wells.

Note: I cannot find WCC-10S in the parking lot + ~~WCC-25~~ the cover at WCC-25 has been broken but all other wells are in good shape + accessible.

915 Began measuring water levels in wells.
1130 Finished measuring wells + began setting up decon system. Also installed 200' of PVC hose onto reel.
1230 Left site to refill the propane tank for steamcleaner.

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. 944016.02

Date 12/17/96 Sheet 2

1350 Returned to site + began setting up to purge well # WCC-55.

1410 Began purgeing WCC-55 from 85' bgs. Total purge will be 50 gal.

1450 Finished purge + collected sample # WCC55-17.

1500 Began demobing for decon.

1522 Began setting up to purge + sample well # WCC-95.

1602 ~~Sto~~ Slowed Purge to about 200 ml/min for sample collection + collected sample # WCC95-17. Began pulling equipment from well.

1620 Began deconing equipment.

1640 Burner on steamcleaner will not light. Began loading equipment into truck to leave site.

1710 Left site.

Note: Decon system is; two new poly tanks for soapy then fresh water internal rinse + a plastic wash pad for external steamclean

Inspector

F-4
Rev. 11/91

Groundwater Purge and Sample Form Date: 12/17/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-55

PROJECT NUMBER: 944016.02

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 63.44

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Red. - Flow 2

TIME START PURGE: 1410

PURGE DEPTH (FT) 85'

TIME END PURGE: 1444

TIME SAMPLED: 1450

COMMENTS: Slowed purge to 200 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 = 49gal. CASING VOLUME (GAL)
	89.25		63.44		25.81		0.16	0.64	1.44		16.51

TIME	1413	1423	1428	1434	1444		
VOLUME PURGED (GAL)	5 gal.	20 gal.	30 gal.	40 gal.	50 gal.		
PURGE RATE (GPM)	1.6	1.5	2.0	1.6	1.0		
TEMPERATURE (°C)	77.8	77.5	77.5	77.0	78.5		
pH	7.38	7.02	7.00	6.99	7.01		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1869.	1875.	1827.	1812.	1779.		
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)	—	63.75	63.75	63.73	63.70		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 12/17/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-9S

PROJECT NUMBER: 944016.02

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 62.48

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1544

PURGE DEPTH (FT) 85'

TIME END PURGE: 1559

TIME SAMPLED: 1602

COMMENTS: Slowed purge to 200 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= 51gal. CASING VOLUME (GAL)
	89.00		62.48		26.52		0.16	0.64	1.44		16.97

TIME	1545	1549	1551	1555	1559		
VOLUME PURGED (GAL)	5gal.	20gal.	30gal.	40gal.	52gal.		
PURGE RATE (GPM)	5gpm	5gpm	5gpm	5gpm	5gpm		
TEMPERATURE (°C)	70.8	70.5	71.5	71.6	71.2		
pH	7.15	7.27	7.21	7.20	7.22		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1737.	1260.	1234.	1224.	1231.		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	light gray	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)	63.81	63.85	63.88	63.90	63.91		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

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

Contractor —

Supt. on Job Shane Scrimshire

Weather Clear

Temperature _____ °F Max _____ °F Min

Work Hours 730 to 1710 Memos Issued _____

Photos —

Special Conditions, Delays, Changes —

Sheet 1 of 2

Date 12/18/96

Project DAC

K/J/C Job No. 944016.02

Accidents Damage —

Sampling, Testing See notes

Visitors to Site —

Work Report (Work done, Personnel/Equipment working)

750 Arrived at DAC. Set up decon pad + began steamcleaning pump, hose + depth sounder.
- Thermocouple in steamcleaner is cracked + is very difficult to heat up.

850 Began setting up to purge + sample well # WCC-1D.

922 Began purgeing WCC-1D from about 80' bgs. This well is 135' deep + total purge is 134 gal.

1045 Purged + sampled well # WCC-2S. Well lid was lost during demo of surrounding buildings. The well is OK.

1152 Purged + sampled well # WCC-11S

1250 Purged + sampled well # WCC-12S.

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. 944016.02

Date 12/18/96 Sheet 2 of 2.

1345 Purged + sampled well # WCC-7S.

1435 Purged + sampled well # WCC-8S.

1528 Purged + sampled well # WCC-4S.

1625 Purged + sampled well # WCC-1S.
- Collected a ~~B~~ duplicate sample from WCC-1S.

Inspector

F-4
Rev. 11/91

Groundwater Purge and Sample Form Date: 12/18/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-117

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 65.79

MEASURING POINT DESCRIPTION: Top of casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 922

PURGE DEPTH (FT) 80'

TIME END PURGE: 1001

TIME SAMPLED: 1006

COMMENTS: Slowed purge to about 200mL/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=134 CASING VOLUME (GAL)
	135.50		65.79		69.71		0.16	0.64	1.44		44.71

TIME	926	943	953	958	1001		
VOLUME PURGED (GAL)	10gal.	60gal.	100gal.	120gal.	135gal.		
PURGE RATE (GPM)	2.5	2.9	4	4	4		
TEMPERATURE (°C)	70.6	72.6	72.2	72.0	72.7		
pH	7.82	7.80	7.78	7.72	7.76		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	868.	829.	807.	803.	808.		
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)	80'	80'	80'	80'	80'		
DEPTH TO WATER DURING PURGE (FT)	69.28	70.29	72.30	72.34	72.35		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89)

Groundwater Purge and Sample Form Date: 12/18/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-1D

PROJECT NUMBER: 944016.01 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1006 COMMENTS:

DEPTH SAMPLED (FT): 80'

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
WCC1D-17	3	VOA	HCL	—	120mL	—	Clear	Yes	8260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 135gal. COMMENTS:

DISPOSAL METHOD: On site drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): 3 drums, one drum shared with WCC-1S

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): 65°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Russ Purcell
Job File:
Other:

Groundwater Purge and Sample Form Date: 12/18/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-2S

PROJECT NUMBER: 944016.01 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 65.41 MEASURING POINT DESCRIPTION: Top of Casing

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

TIME START PURGE: 1045 PURGE DEPTH (FT) 80'

TIME END PURGE: 1100

TIME SAMPLED: 1107

COMMENTS: Slowed purgerate to 200 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=44gal. CASING VOLUME (GAL)
	88.74		65.41		23.33		0.16	0.64	1.44		14.93

TIME	1048	1054	1057	1059	1100		
VOLUME PURGED (GAL)	5gal.	20gal.	30gal.	40gal.	48gal.		
PURGE RATE (GPM)	1.7	2.5	3.3	3.3	4		
TEMPERATURE (°C)	65.3	69.4	69.7	70.8	71.4		
pH	8.15	7.11	7.02	7.08	7.12		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	521.	1284.	1197.	#1213.	1195.		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Light olive color	V. light olive	→	Clear		
ODOR	NO	Sour odor	—	—	NO		
DEPTH OF PURGE INTAKE (FT)	80'	80'	80'	80'	80'		
DEPTH TO WATER DURING PURGE (FT)	66.54	67.00	67.54	67.60	67.63		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 12/18/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-25

PROJECT NUMBER: 944016.01 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1107 COMMENTS:

DEPTH SAMPLED (FT): 80'

SAMPLING EQUIPMENT: Red. - 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
WCC25-17	3	VOA	HCL	—	120mL	—	Clear	NO	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: Lid on Cristy Box was broken during the demo. of surrounding buildings.

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 70 °F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Russ Purcell
Job File:
Other:

Groundwater Purge and Sample Form Date: 12/18/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-115

PROJECT NUMBER: 944016.01 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 64.31 MEASURING POINT DESCRIPTION: Top of Casing

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

TIME START PURGE: 1152 PURGE DEPTH (FT) 80'

TIME END PURGE: 1202

TIME SAMPLED: 1206

COMMENTS: Slowed purge rate to about 200 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	=	×3=48 CASING VOLUME (GAL)
	89.15		64.31		24.84		0.16	0.64	1.44		15.89

TIME	1153	1156	1158	1200	1202		
VOLUME PURGED (GAL)	5gal	20gal.	30gal.	40gal.	50gal.		
PURGE RATE (GPM)	5	5	5	5	5		
TEMPERATURE (°C)	69.4	68.2	68.9	68.9	68.8		
pH	7.30	7.31	7.28	7.29	7.29		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1367.	1349.	1384.	1388.	1402.		
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)	80'	80'	80'	80'	80'		
DEPTH TO WATER DURING PURGE (FT)	70.33	71.46	71.70	71.87	71.99		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 12/18/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-115

PROJECT NUMBER: 944016.01 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1206 COMMENTS:

DEPTH SAMPLED (FT): 80'

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
WCC115-17	3	VOA	HCL	—	120mL	—	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): 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: Russ Purcell
Job File:
Other:

Groundwater Purge and Sample Form Date: 12/18/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-12S

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 62.48

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1250

PURGE DEPTH (FT) 80'

TIME END PURGE: 1304

TIME SAMPLED: 1308

COMMENTS: Slowed purge to 200mL/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 = 52gal. CASING VOLUME (GAL)
	90.10		62.48		27.62		0.16	0.64	1.44		17.49

TIME	1252	1257	1259	1302	1304		
VOLUME PURGED (GAL)	10gal.	25gal.	35gal.	45gal.	55gal.		
PURGE RATE (GPM)	5	3	5	5	5		
TEMPERATURE (°C)	73.2	74.7	73.9	74.2			
pH	7.73	7.40	7.36	7.35			
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1512.	1414.	1395	1372.			
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)	80'	80'	80'	80'	80'		
DEPTH TO WATER DURING PURGE (FT)	64.86	65.11	65.13	65.15	65.15		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 12/18/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-12S

PROJECT NUMBER: 944016.01 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1308 COMMENTS:

DEPTH SAMPLED (FT): 80'

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
WCC12S-17	3	VOA	HCL	—	120mL	—	Clear	Yes	8260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 55 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): 75°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager: Russ Purcell
Job File:
Other:

Groundwater Purge and Sample Form Date: 12/18/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-75

PROJECT NUMBER: 944016.01

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 63.93

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1345

PURGE DEPTH (FT) 80'

TIME END PURGE: 1357

TIME SAMPLED: 1405

COMMENTS: Slowed purgerate to 200mL/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	=	Y3=47.67 CASING VOLUME (GAL)
	88.80		63.93		24.87		0.16	0.64	1.44		15.89

TIME	1347	1350	1353	1355	1357		
VOLUME PURGED (GAL)	5gal.	20gal.	30gal	40gal.	50gal.		
PURGE RATE (GPM)	2.5	5.0	3.3	5.0	5.0		
TEMPERATURE (°C)	73.2	73.3	73.3	73.6	72.9		
pH	7.44	7.30	7.26	7.24	7.13		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	2190.	1795.	1770.	1710.	1640.		
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)	80'	80'	80'	80'	80'		
DEPTH TO WATER DURING PURGE (FT)	65.35	65.50	65.53	65.56	65.57		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89)

Groundwater Purge and Sample Form Date: 12/18/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-7S

PROJECT NUMBER: 944016.01 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1405 COMMENTS:

DEPTH SAMPLED (FT): 80'

SAMPLING EQUIPMENT: Red. -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
WCC7S-17	3	VOA	HCL	—	120mL	—	Clear	Yes	8260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 52 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): 70°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Russ Purcell
Job File:
Other:

Groundwater Purge and Sample Form Date: 12/18/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-85

PROJECT NUMBER: 944016.02

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 65.55

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1435

PURGE DEPTH (FT) 80'

TIME END PURGE: 1445

TIME SAMPLED: 1450

COMMENTS: Slowed purgerate to 200 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=43 gal CASING VOLUME (GAL)
	88.05		65.55		22.50		0.16	0.64	1.44		14.40

TIME	1437	1440	1442	1445			
VOLUME PURGED (GAL)	5gal.	20gal.	30gal.	45gal.			
PURGE RATE (GPM)	2.5	5.0	5.0	5.0			
TEMPERATURE (°C)	68.1	69.9	70.8	69.3			
pH	7.26	7.08	7.06	6.98			
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1723.	1762.	1786.	1761.			
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)	80'	80'	80'	80'			
DEPTH TO WATER DURING PURGE (FT)	67.19	67.25	67.30	67.32			
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89)

Groundwater Purge and Sample Form Date: 12/18/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-85

PROJECT NUMBER: 944016.02 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1450 COMMENTS:

DEPTH SAMPLED (FT): 80

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
WCC85-17	3	VOA	HCL	—	120 mL	—	Clear	Yes	8260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 45 gal. COMMENTS:

DISPOSAL METHOD: Redi-Flow 2

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): 70 °F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Russ Purcell
Job File:
Other:

Groundwater Purge and Sample Form Date: 12/18/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-45

PROJECT NUMBER: 944016.02

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 64.88

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1528

PURGE DEPTH (FT) 80'

TIME END PURGE: 1543

TIME SAMPLED: 1548

COMMENTS: Slowed purgerate to 200 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=47 CASING VOLUME (GAL)
	89.55		64.88		24.67		0.16	0.64	1.44		15.78

TIME	1531	1534	1536	1539	1543		
VOLUME PURGED (GAL)	5gal.	20gal.	30gal.	40gal.	50gal.		
PURGE RATE (GPM)	1.6	5.0	5.0	3.3	2.5		
TEMPERATURE (°C)	69.5	71.0	71.6	72.3	70.4		
pH	7.49	7.29	7.17	7.15	7.11		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1802.	1775.	1669.	1605.	1610.		
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)	80'	80'	80'	80'	80'		
DEPTH TO WATER DURING PURGE (FT)	65.87	66.05	66.06	66.18	66.18		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

F-43.1 (5-89)

Groundwater Purge and Sample Form Date: 12/18/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-4S

PROJECT NUMBER: 944016.02 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1548 COMMENTS:

DEPTH SAMPLED (FT): 80

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
WCC4S-17	3	VOA	HCL	—	120mL	—	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): 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: Russ Purcell
Job File:
Other:

Groundwater Purge and Sample Form Date: 12/18/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-1 S

PROJECT NUMBER: 944016.02 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 65.73 MEASURING POINT DESCRIPTION: Top of Casing

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

TIME START PURGE: 1625 PURGE DEPTH (FT) 82'

TIME END PURGE: 1644

TIME SAMPLED: 1650

COMMENTS: Slowed purge to 200 mL/min for sample collection. Collected duplicate sample # DW-121896 from this well.

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 = 8.5 gal. CASING VOLUME (GAL)
	83.40		65.73		17.67		0.16	0.64	1.44		2.82

TIME	1630	1634	1638	1641	1644		
VOLUME PURGED (GAL)	1gal.	4gal.	7gal.	8.5gal.	10gal.		
PURGE RATE (GPM)	.2	1.0	.75	.83	.5		
TEMPERATURE (°C)	70.3	66.6	67.2	68.4	71.4		
pH	7.83	7.48	7.27	7.21	7.27		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	514.	1192.	1728.	2,080.	2060.		
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	light olive ~~Clear~~	olive,	→	→		
ODOR	NO	NO	NO	NO	NO		
DEPTH OF PURGE INTAKE (FT)	82'	82'	82'	82'	82'		
DEPTH TO WATER DURING PURGE (FT)	N.A.	NA.	NA.	NA	NA		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 12/18/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-1S

PROJECT NUMBER: 944016.02 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1650 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-17	3	VOA	HCL	—	120mL	—	Olive	YES	8260	
DW-121896	"	"	"	—	"	—	"	"	"	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 10 gal. COMMENTS:

DISPOSAL METHOD: On site drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): Shared a drum with WCC-1D.

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): 68°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Russ Purcell
Job File:
Other:

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

Contractor ——

Supt. on Job Shane Scrimshire

Sheet 1 of 2

Weather Clear

Date 12/19/96

Temperature _____ °F Max 60 °F Min

Project DAC

Work Hours 730 to 1335 Memos Issued _____

Photos ——

K/J/C Job No. 944016.01

Special Conditions, Delays, Changes ——

Accidents Damage ——

Sampling, Testing See notes

Visitors to Site ——

Work Report (Work done, Personnel/Equipment working)

~~800~~ 750 Arrived on site. Filled decon wash barrels, filled steamcleaner, water tank + deconed equipment.

800 Began purge well # WCC-3D. This is the deepest well on site with a total purge of 138 gal. This well also recovers slowly (approx 1-2 gal. min.).

936 Collected sample # WCC3D-17.

1018 Began purge on well # WCC-3S. This well has a strong odor.

1036 Collected sample # WCC3S-17.

1107 Began purge on WCC-6S. This well also has a very strong odor.

1125 Collected sample # WCC6S-17 + Duplicate sample DW-121996.

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. 944016.02

Date 12/19/96 Sheet 2 of 2

1222 Began purgeing well # DAC-P1. Purged from 88' because of low recovery rate.

1234 Pump overheated + stopped. Allowed pump to cool before resuming purge.

1240 Resumed purge.

1250 Slowed purge rate to 200 mL/min + collected sample # DACP1-17.

After pulling equipment from well I decon'd for the last time + collected a Rinsate Blank sample by pouring clean water (lab prepaired) over the clean pump + collecting rinsate in 3- VOA's.

1310 Collected EB-121896.

1335 Demobed decon system + left site.

- Generated 1 rinsate drum in addition to purge drums.

Inspector

F-4
Rev. 11/91

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

Contractor ——

Supt. on Job Shane Scrimshire

Sheet 1 of 2

Weather Clear

Date 12/19/96

Temperature _____ °F Max 60 °F Min

Project DAC

Work Hours 730 to 1335 Memos Issued _____

Photos ——

K/J/C Job No. 944016.01

Special Conditions, Delays, Changes ——

Accidents Damage ——

Sampling, Testing see notes

Visitors to Site ——

Work Report (Work done, Personnel/Equipment working)

~~800~~ 750 Arrived on site. Filled decon wash barrels, filled steamcleaner, water tank + deconed equipment.

800 Began purge well # WCC-3D. This is the deepest well on site with a total purge of 138 gal. This well also recovers slowly (approx 1-2 gal. min.).

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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. 944016.02

Date 12/19/96 Sheet 2 of 2

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1335 Demobed decon system + left site.

- Generated 1 rinsate drum in addition to purge drums.

Inspector

F-4
Rev. 11/91

Groundwater Purge and Sample Form Date: 12/19/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-3D

PROJECT NUMBER: 944016.01 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 66.39 MEASURING POINT DESCRIPTION: Top of Casing

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

TIME START PURGE: 830 PURGE DEPTH (FT) 110'

TIME END PURGE: 931

TIME SAMPLED: 936

COMMENTS: Slowed purge rate to 200 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 = 138 CASING VOLUME (GAL)
	138.70		66.39		72.31		0.16	0.64	1.44		46.27

TIME	835	858	913	920	931		
VOLUME PURGED (GAL)	10 gal.	60	100	120	150 ~~140~~		
PURGE RATE (GPM)	2.0	2.0	2.6	2.8	2.7		
TEMPERATURE (°C)	60.0	64.9	66.4	67.2	64.5		
pH	7.60	7.76	7.70	7.71	7.66		
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	704.	689.	698.	714.	690.		
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)	110'	110'	110'	110'	110'		
DEPTH TO WATER DURING PURGE (FT)	75.90	86.00	87.98	91.60	93.22		
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 12/19/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-3D

PROJECT NUMBER: 944016.02 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 936 COMMENTS:

DEPTH SAMPLED (FT): 110'

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
WCC3D-17	3	VOA	HCL	—	120 mL	—	Clear	YES	8260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 150 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): 68° F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Russ Purcell
Job File:
Other:

BOE-C6-0112819

Groundwater Purge and Sample Form Date: 12/19/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: DAC-P1

PROJECT NUMBER: 94406.02 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 67.11 MEASURING POINT DESCRIPTION: Top of Casing

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

TIME START PURGE: 1222 PURGE DEPTH (FT) 88'

TIME END PURGE: 1245

TIME SAMPLED: 1250

COMMENTS: 1234 - Pump overheated & stopped. 1240 - Restarted pump 1310 - Collected Equip. Blank # EB-121996.

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 = 43.5 CASING VOLUME (GAL)
	89.80		67.11		22.69		0.16	0.64	1.44		14.52

TIME	1226	1232	1241	1245			
VOLUME PURGED (GAL)	5gal.	20gal.	35 gal.	44gal.			
PURGE RATE (GPM)	1.2	2.5	1.6	2.25			
TEMPERATURE (°C)	71.1	72.3	72.2	72.1			
pH	7.10	7.19	7.09	7.06			
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	2,070.	2070.	2,200.	2,260.			
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)	88'	88'	88'	88			
DEPTH TO WATER DURING PURGE (FT)	69.40	69.80	69.20	73.15			
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 12/19/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: DAC-P1

PROJECT NUMBER: 944016.02 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1250 COMMENTS: EB-121996 collected @ 1310

DEPTH SAMPLED (FT): 88'

SAMPLING EQUIPMENT: Red.-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
DACP1-17	3	VOA	HCL	—	120mL	—	Clear	YES	8260	
EB-121996	3	"	"	—	"	—	"	"	"	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 44 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): 72°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Russ Purcell
Job File:
Other:

Groundwater Purge and Sample Form Date: 12/19/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-65

PROJECT NUMBER: 944016.02 PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 66.30 MEASURING POINT DESCRIPTION: Top of Casing

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

TIME START PURGE: 1107 PURGE DEPTH (FT) 80'

TIME END PURGE: 1120

TIME SAMPLED: 1125

COMMENTS: Slowed purge to 200 mL/min for sample collection.

Collected Dup. From this well # DW-121996

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 CASING VOLUME (GAL)
	89.05		66.30		22.75		0.16	0.64	1.44		13.96

TIME	1109	1111	1116	1120			
VOLUME PURGED (GAL)	10 gal.	20 gal.	30 gal.	45 gal.			
PURGE RATE (GPM)	3.3	3.3	2.0	3.75			
TEMPERATURE (°C)	72.5	72.9	72.6	71.9			
pH	7.00	6.65	7.00	6.98			
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	1513.	1506.	1512.	1492.			
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)	80'	80'	80'	80'			
DEPTH TO WATER DURING PURGE (FT)	68.05	68.08	68.40	68.48			
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 12/19/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-65

PROJECT NUMBER: 944016.02 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1125 COMMENTS:

DEPTH SAMPLED (FT): 80'

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
WCC65-17	3	VOA	HCL	—	120mL	—	Clear	YES	8260	
DW-121996	"	"	"	—	"	—	"	"	"	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 45 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: Russ Purcell
Job File:
Other:

Groundwater Purge and Sample Form Date: 12/19/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC

WELL NUMBER: WCC-3S

PROJECT NUMBER: 944016.02

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 66.30

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Elec. Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1018

PURGE DEPTH (FT) 80'

TIME END PURGE: 1031

TIME SAMPLED: 1036

COMMENTS: Slowed purge to 200ml/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=42 CASING VOLUME (GAL)
	88.07		66.30		21.77		0.16	0.64	1.44		13.91

TIME	1021	1025	1028	1031			
VOLUME PURGED (GAL)	5gal.	20gal.	30gal.	45gal.			
PURGE RATE (GPM)	1.6	3.75	3.3	5.0			
TEMPERATURE (°C)	71.2	72.0	72.7	73.4			
pH	6.48	6.62	6.64	6.67			
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	3,940.	2,670.	2,470.	2,260.			
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear w/ suspended black particles	→	→	→			
ODOR	sour odor	sour odor	sour odor	sour odor			
DEPTH OF PURGE INTAKE (FT)	80'	80'	80'	80'			
DEPTH TO WATER DURING PURGE (FT)	67.25	67.27	67.44	67.50			
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

Groundwater Purge and Sample Form Date: 12/19/96 **Kennedy/Jenks Consultants**

PROJECT NAME: DAC WELL NUMBER: WCC-35

PROJECT NUMBER: 944016.02 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1036 COMMENTS:

DEPTH SAMPLED (FT): 80'

SAMPLING EQUIPMENT: Red. -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
WCC35-17	3	VOA	HCL	—	120ml	—	Clear	YES	8260	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 45 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): 70°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Russ Purcell
Job File:
Other:

F-43.2 (5-89)

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	Russ Purcell	12/17/96	61762
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	
2151 Mickelson Dr. Ste. 100	(714) 261-1577		Page 1 of 1
City / **State** / **Zip Code**	**Site Contact**	**Lab Contact**	
Irvine / CA. / 92715			
Project Name	**Carrier/Waybill Number**		
OAC			
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
WCC55-17	12/17/96	1450	X											X	
WCC95-17	"	1602	X											X	
~~Travel Blank~~ Included with 12/18/96 samples															

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 [X] 7 Days [ ] 14 Days [ ] 21 Days [ ] Other _____

QC Requirements (Specify):

Relinquished By	Date	Time	Received By	Date	Time
1. [signature]	12/18/96	1925	1. [signature]	12-18-96	1925
2.			2.		
3.			3.		

Comments:

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

BOE-C6-0112827

Chain of Custody Record

Quanterra Environmental Services

QUA-4124-1

Client	Project Manager	Date	Chain Of Custody Number
Kennedy / Jenks	Russ Purcell	12/18/96	61761
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page 1 of 1**
2151 Michelson 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)

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		8260
WCC1D-17	12/18/96	1006	X											X
WCC2S-17	↓	1107	↓											↓
WCC11S-17		1206												
WCC12S-17		1308												
WCC7S-17		1405												
WCC8S-17		1450												
WCC4S-17		1548												
WCC1S-17		1650												
DW-121896		—												
TB-121896	↓	—	↓											↓

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	12/18/96	1925	1. Received By	12.18.96	1925
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

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

BOE-C6-0112828

[redacted]

Chain of Custody Record

QUA-4124-1

Quanterra Environmental Services

Client: Kennedy / Jenks	Project Manager: Russ Purcell	Date: 12/19/96	Chain Of Custody Number: 58022
Address: 2151 Mickelson Dr. Ste 100	Telephone Number (Area Code)/Fax Number: 714-261-1577	Lab Number:	Page 1 of 1
City: Irvine; State: CA.; Zip Code: 92715	Site Contact: Gene Scrimshire	Lab Contact: Pat Ovey	
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
WCC3D-17	12/19/96	936	X							X				X	
WCC3S-17		1036	↓							↓				↓	
WCC6S-17		1125	↓							↓				↓	
~~[illegible]~~ DACP1-17		1250	↓							↓				↓	
DW-121996		—	↓							↓				↓	
EB-121996		1310	↓							↓				↓	

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]	12/19/96	1420	1. Received By: [signature]	121996	1420
2. Relinquished By:			2. Received By:		
3. Relinquished By:			3. Received By:		

Comments:

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

BOE-C6-0112829

MCDONNELL DOUGLAS

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