Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
WELL # A-39A Area = PUA Marquardt													
03/29/05	<0.1	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	103.20	0.00	104.86	1.66
06/28/05	<0.1	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	-	-	-	-
12/06/05	<0.05	-	<1.0	<5.0	<5.0	<5.0	<1.0	-	-	104.73	0.00	104.86	0.13
03/29/06	<0.0066	-	<0.3	<0.1	<0.2	<0.3	<0.6	-	NP	102.85	0.00	104.81	1.96
12/05/06	<0.0056	-	<0.32	2.0 J	<0.24	<0.3	<0.63	-	NP	101.74	0.00	104.81	3.07
04/30/07	<0.0056	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	-	NP	99.64	0.00	104.81	5.17
09/26/07	<0.0056	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<10	NP	101.05	0.00	104.81	3.76
04/22/08	<0.0066	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<10	NP	101.93	0.00	104.81	2.88
09/24/08	<0.0066	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	104.08	0.00	104.81	0.73
03/31/09	<0.0066	<0.032	2.1	<0.24	<0.21	<0.45	1.2	<5.2	NP	104.72	0.00	104.81	0.09
09/30/09	<0.0066	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	106.74	0.00	104.81	-1.93
05/05/10	<0.0066	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	106.79	0.00	104.81	-1.98
10/07/10	<0.0066	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	107.56	0.00	104.81	-2.75
03/31/11	<0.0066	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	105.77	0.00	104.81	-0.96
09/29/11	<0.0066	<0.04	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	104.24	0.00	104.81	0.57
04/04/12	<0.0066	<0.04	1.2	<0.24	<0.21	<0.45	<0.19	<5.2	NP	101.78	0.00	104.81	3.03
09/27/12	<0.0066	<0.04	<0.18	2.1 J	<0.21	<0.45	<0.19	<5.2	NP	101.95	0.00	104.81	2.86
03/21/13	<0.0066	<0.04	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	101.32	0.00	104.81	3.49
09/26/13	<0.0066	<0.04	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	103.67	0.00	104.81	1.14
04/03/14	<0.0066	<0.04	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	104.75	0.00	104.81	0.06
WELL # A-40													
02/08/88	-	-	-	-	-	-	-	-	NP	74.60	0.00	94.75	20.15
03/29/89	-	-	-	-	-	-	-	-	NP	75.42	0.00	92.75	17.33
03/26/90	-	-	-	-	-	-	-	-	NP	76.96	0.00	92.79	15.83
02/19/91	-	-	-	-	-	-	-	-	NP	78.44	0.00	92.79	14.35
03/02/92	-	-	-	-	-	-	-	-	NP	76.70	0.00	92.76	14.06
11/20/92	-	-	-	-	-	-	-	-	NP	78.94	0.00	92.76	13.82
02/27/93	-	-	-	-	-	-	-	-	NP	78.55	0.00	92.76	14.21
04/18/94	-	-	-	-	-	-	-	-	NP	75.70	0.00	92.76	17.06
04/20/95	-	-	-	-	-	-	-	-	NP	72.63	0.00	92.76	20.13
04/09/96	-	-	-	-	-	-	-	-	NP	69.85	0.00	92.76	22.91
04/30/97	-	-	-	-	-	-	-	-	NP	67.52	0.00	92.76	25.24
04/22/98	-	-	<1.0	-	<1.0	-	-	-	NP	66.13	0.00	92.76	26.63
	WELL DESTROYED												
WELL # A-41													
02/08/88	-	-	-	-	-	-	-	-	NP	70.59	0.00	93.47	22.88
03/29/89	-	-	-	-	-	-	-	-	NP	71.35	0.00	93.47	22.12
03/26/90	-	-	-	-	-	-	-	-	NP	72.23	0.00	91.80	19.57
02/19/91	-	-	-	-	-	-	-	-	NP	73.21	0.00	91.80	18.59
03/02/92	-	-	-	-	-	-	-	-	NP	73.33	0.00	91.79	18.46
08/22/92	-	-	-	-	-	-	-	-	NP	73.75	0.00	91.79	18.04
02/27/93	-	-	-	-	-	-	-	-	NP	73.69	0.00	91.79	18.10
04/18/94	-	-	-	-	-	-	-	-	NP	71.26	0.00	91.79	20.53
04/20/95	-	-	-	-	-	-	-	-	NP	69.96	0.00	91.79	21.83
04/09/96	-	-	-	-	-	-	-	-	NP	67.44	0.00	91.79	24.35
05/02/97	-	-	-	-	-	-	-	-	NP	66.17	0.00	91.79	25.62
11/05/97	-	-	-	-	-	-	-	-	NP	65.36	0.00	91.79	26.43
	WELL DESTROYED												
WELL # A-42													
06/08/89	-	-	-	-	-	-	-	-	73.83	74.79	0.96	88.10	14.03
03/26/90	-	-	-	-	-	-	-	-	71.44	86.85	15.41	88.10	12.88
02/19/91	-	-	-	-	-	-	-	-	75.21	81.21	6.00	88.10	11.42
03/02/92	-	-	-	-	-	-	-	-	73.58	86.52	12.94	88.04	11.29
11/20/92	-	-	-	-	-	-	-	-	76.92	78.17	1.25	88.04	10.81
02/27/93	-	-	-	-	-	-	-	-	75.21	80.60	5.39	88.04	11.51
04/18/94	-	-	-	-	-	-	-	-	72.39	80.80	8.41	88.04	13.59
04/20/95	-	-	-	-	-	-	-	-	71.62	71.80	0.18	88.04	16.38
04/08/96	-	-	-	-	-	-	-	-	69.34	69.40	0.06	88.04	18.69
04/28/97	-	-	-	-	-	-	-	-	67.15	67.26	0.11	88.04	20.89
04/21/98	-	-	-	-	-	-	-	-	NP	66.29	0.00	88.04	21.75
04/26/99	-	-	-	-	-	-	-	-	65.25	65.55	0.30	88.04	22.72
04/10/00	-	-	-	-	-	-	-	-	66.16	66.27	0.11	88.04	21.85
04/02/01	-	-	-	-	-	-	-	-	67.26	67.56	0.30	88.04	20.71
04/01/02	-	-	-	-	-	-	-	-	68.32	68.67	0.35	88.04	19.63
11/01/02	-	-	-	-	-	-	-	-	69.45	69.63	0.18	88.04	18.55
04/01/03	-	-	-	-	-	-	-	-	69.50	69.52	0.02	88.04	18.54
11/01/03	-	-	-	-	-	-	-	-	70.60	70.63	0.03	88.04	17.43
03/30/04	-	-	-	-	-	-	-	-	71.47	71.48	0.01	88.04	16.57
11/22/04	-	-	-	-	-	-	-	-	72.86	72.88	0.02	88.04	15.16
03/29/05	-	-	-	-	-	-	-	-	72.54	72.62	0.08	88.04	15.48
12/07/05	-	-	-	-	-	-	-	-	72.75	72.82	0.07	88.04	15.27
4/00/06	-	-	-	-	-	-	-	-	72.16	72.20	0.04	90.99	18.82
12/05/06	-	-	-	-	-	-	-	-	71.68	71.74	0.06	90.99	19.30
05/01/07	-	-	-	-	-	-	-	-	70.85	70.98	0.13	90.99	20.11
09/25/07	-	-	-	-	-	-	-	-	71.23	71.61	0.38	90.99	19.67
03/27/08	-	-	-	-	-	-	-	-	71.60	72.14	0.54	90.99	19.26
09/22/08	-	-	-	-	-	-	-	-	72.09	74.00	1.91	90.99	18.43
03/26/09	-	-	-	-	-	-	-	-	69.05	86.25	17.20	90.99	17.73
10/12/09	-	-	-	-	-	-	-	-	73.58	74.91	1.33	90.99	17.08
05/04/10	-	-	-	-	-	-	-	-	74.10	75.29	1.19	90.99	16.60
10/06/10	-	-	-	-	-	-	-	-	74.47	76.17	1.70	90.99	16.10
03/30/11	-	-	-	-	-	-	-	-	74.24	75.50	1.26	90.99	16.44

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DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
09/28/11	-	-	-	-	-	-	-	-	73.83	74.90	1.07	90.99	16.90
04/03/12	-	-	-	-	-	-	-	-	73.00	74.00	1.00	90.99	17.75
09/26/12	-	-	-	-	-	-	-	-	72.75	73.17	0.42	90.99	18.14
03/20/13	-	-	-	-	-	-	-	-	72.60	72.97	0.37	90.99	18.30
09/25/13	-	-	-	-	-	-	-	-	NP	73.15	0.00	90.99	17.84
04/02/14	-	-	-	-	-	-	-	-	73.70	74.50	0.80	90.99	17.09
WELL # A-43	Area = MA												
06/08/89	-	-	-	-	-	-	-	-	NP	77.26	0.00	91.07	13.81
03/26/90	-	-	-	-	-	-	-	-	NP	78.73	0.00	91.07	12.34
02/19/91	-	-	-	-	-	-	-	-	NP	79.83	0.00	91.07	11.24
11/20/91	-	-	-	-	-	-	-	-	NP	83.26	0.00	91.06	7.78
03/02/92	-	-	-	-	-	-	-	-	NP	79.83	0.00	91.06	11.23
02/27/93	-	-	-	-	-	-	-	-	NP	79.70	0.00	91.06	11.36
04/18/94	-	-	-	-	-	-	-	-	NP	75.17	0.00	91.06	15.89
04/20/95	-	-	-	-	-	-	-	-	NP	74.61	0.00	91.06	16.45
04/09/96	-	-	-	-	-	-	-	-	NP	72.15	0.00	91.06	18.91
04/30/97	-	-	-	-	-	-	-	-	NP	69.93	0.00	91.06	21.13
04/21/98	-	-	-	-	-	-	-	-	NP	68.91	0.00	91.06	22.15
04/26/99	-	-	-	-	-	-	-	-	NP	67.98	0.00	91.06	23.08
04/11/00	-	-	-	-	-	-	-	-	NP	69.20	0.00	91.06	21.86
04/03/01	-	-	-	-	-	-	-	-	NP	70.35	0.00	91.06	20.71
11/13/01	-	-	13000	-	-	-	<10	-	NP	71.32	0.00	91.06	19.74
04/01/02	-	-	-	-	-	-	-	-	NP	71.38	0.00	91.06	19.68
11/01/02	-	-	-	-	-	-	-	-	NP	72.90	0.00	91.06	18.16
04/01/03	-	-	-	-	-	-	-	-	NP	72.46	0.00	91.06	18.60
11/01/03	-	-	-	-	-	-	-	-	NP	73.51	0.00	91.06	17.55
03/30/04	-	-	-	-	-	-	-	-	NP	73.60	0.00	91.06	17.46
11/22/04	-	-	-	-	-	-	-	-	NP	75.12	0.00	91.06	15.94
03/29/05	-	-	-	-	-	-	-	-	NP	74.76	0.00	91.06	16.30
12/08/05	-	-	-	-	-	-	-	-	NP	74.76	0.00	91.06	16.30
04/11/06	-	-	-	-	-	-	-	-	NP	74.41	0.00	91.06	16.65
12/06/06	-	-	-	-	-	-	-	-	NP	73.88	0.00	91.06	17.18
06/01/07	-	-	-	-	-	-	-	-	NP	73.10	0.00	91.06	17.96
09/26/07	-	-	-	-	-	-	-	-	NP	73.53	0.00	91.06	17.53
09/26/07	-	-	-	-	-	-	-	-	NP	73.95	0.00	91.06	17.11
09/22/08	-	-	-	-	-	-	-	-	NP	78.92	0.00	91.06	12.14
03/26/09	-	-	-	-	-	-	-	-	NP	75.27	0.00	91.06	15.79
10/12/09	-	-	-	-	-	-	-	-	NP	76.25	0.00	91.06	14.81
05/04/10	-	-	-	-	-	-	-	-	NP	76.86	0.00	91.06	14.20
10/08/10	-	-	-	-	-	-	-	-	NP	77.38	0.00	91.06	13.68
03/30/11	-	-	-	-	-	-	-	-	NP	76.94	0.00	91.06	14.12
09/28/11	-	-	-	-	-	-	-	-	NP	76.51	0.00	91.06	14.55
04/03/12	-	-	-	-	-	-	-	-	NP	75.72	0.00	91.06	15.34
09/26/12	-	-	-	-	-	-	-	-	NP	75.49	0.00	91.06	15.57
03/20/13	-	-	-	-	-	-	-	-	NP	75.33	0.00	91.06	15.73
09/26/13	-	-	-	-	-	-	-	-	NP	75.80	0.00	91.06	15.26
04/02/14	-	-	-	-	-	-	-	-	NP	76.38	0.00	91.06	14.68
WELL # A-44													
06/08/89	-	-	-	-	-	-	-	-	67.08	85.50	18.42	87.91	16.32
03/26/90	-	-	-	-	-	-	-	-	68.04	ND	-68.04	87.91	-
02/19/91	-	-	-	-	-	-	-	-	70.33	79.60	9.27	87.91	15.31
03/02/92	-	-	-	-	-	-	-	-	72.00	72.42	0.42	88.05	15.95
02/27/93	-	-	-	-	-	-	-	-	72.92	75.64	2.72	88.05	14.46
05/20/93	-	-	-	-	-	-	-	-	79.33	79.42	0.09	88.05	8.70
04/18/94	-	-	-	-	-	-	-	-	69.55	75.95	6.40	88.05	18.93
04/20/95	-	-	-	-	-	-	-	-	69.60	69.75	0.15	88.05	18.41
04/09/96	-	-	-	-	-	-	-	-	NP	68.14	0.00	88.05	19.91
04/28/97	-	-	-	-	-	-	-	-	NP	65.21	0.00	88.05	22.84
04/21/98	-	-	-	-	-	-	-	-	63.70	63.70	0.00	88.05	24.35
04/26/99	-	-	-	-	-	-	-	-	61.53	61.57	0.04	88.05	26.51
11/01/99	-	-	-	-	-	-	-	-	61.07	61.12	0.05	88.05	26.97
04/10/00	-	-	-	-	-	-	-	-	60.45	63.14	2.69	88.05	28.94
04/02/01	-	-	-	-	-	-	-	-	61.62	63.57	1.95	88.05	26.95
04/01/02	-	-	-	-	-	-	-	-	61.59	64.39	2.80	88.05	25.77
11/01/02	-	-	-	-	-	-	-	-	62.12	66.68	4.56	88.05	24.81
04/01/03	-	-	-	-	-	-	-	-	62.48	66.02	3.54	88.05	24.70
11/01/03	-	-	-	-	-	-	-	-	63.21	66.15	2.94	88.05	24.12
03/30/04	-	-	-	-	-	-	-	-	65.11	66.18	1.07	88.05	22.68
11/22/04	-	-	-	-	-	-	-	-	66.14	67.20	1.06	88.05	21.65
03/29/05	-	-	-	-	-	-	-	-	66.40	66.84	0.44	88.05	21.84
12/07/05	-	-	-	-	-	-	-	-	66.53	67.33	0.80	88.05	21.32
4/00/06	-	-	-	-	-	-	-	-	66.50	67.35	0.85	88.05	21.34
12/05/06	-	-	-	-	-	-	-	-	66.50	66.60	0.10	88.05	21.53
06/01/07	-	-	-	-	-	-	-	-	65.70	68.42	2.72	88.05	21.68
09/25/07	-	-	-	-	-	-	-	-	65.75	69.40	3.65	88.05	21.41
03/27/08	-	-	-	-	-	-	-	-	66.14	69.91	3.77	88.05	20.99
09/22/08	-	-	-	-	-	-	-	-	67.12	67.65	0.53	88.05	20.80
03/26/09	-	-	-	-	-	-	-	-	66.85	67.40	0.55	88.05	21.07
10/12/09	-	-	-	-	-	-	-	-	67.49	71.05	3.56	88.05	19.69
05/04/10	-	-	-	-	-	-	-	-	68.15	70.32	2.17	88.05	19.37
10/08/10	-	-	-	-	-	-	-	-	68.31	72.45	4.14	88.05	18.73
03/30/11	-	-	-	-	-	-	-	-	68.21	78.49	10.28	88.05	17.32
09/28/11	-	-	-	-	-	-	-	-	69.10	70.13	1.03	88.05	18.70

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	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
04/03/12	-	-	-	-	-	-	-	-	69.00	69.94	0.94	88.06	18.62
09/26/12	-	-	-	-	-	-	-	-	68.53	72.34	3.81	88.05	16.59
03/20/13	-	-	-	-	-	-	-	-	68.61	71.41	2.80	88.05	16.75
09/25/13	-	-	-	-	-	-	-	-	68.60	75.33	6.73	88.05	17.60
04/02/14	-	-	-	-	-	-	-	-	69.16	73.55	4.37	88.05	17.60
WELL # A-45													
12/20/90	-	-	-	-	-	-	-	-	NP	92.93	0.00	88.43	-4.50
02/19/91	-	-	-	-	-	-	-	-	NP	91.31	0.00	88.43	-2.88
03/02/92	-	-	-	-	-	-	-	-	NP	90.88	0.00	88.46	-2.42
08/22/92	-	-	-	-	-	-	-	-	NP	93.75	0.00	88.46	-5.29
02/27/93	-	-	-	-	-	-	-	-	NP	89.94	0.00	88.46	-1.48
04/18/94	-	-	-	-	-	-	-	-	NP	88.63	0.00	88.46	-0.17
04/20/95	-	-	-	-	-	-	-	-	NP	79.60	0.00	88.46	8.86
04/10/96	-	-	-	-	-	-	-	-	NP	76.68	0.00	88.46	11.78
05/01/97	-	-	-	-	-	-	-	-	NP	74.81	0.00	88.46	13.65
04/21/98	-	-	-	-	-	-	-	-	NP	75.08	0.00	88.46	13.38
04/26/99	-	-	-	-	-	-	-	-	NP	74.89	0.00	88.46	13.57
04/10/00	-	-	-	-	-	-	-	-	NP	77.48	0.00	88.46	10.98
04/03/01	-	-	-	-	-	-	-	-	NP	79.02	0.00	88.46	9.44
11/14/01	-	-	30500	-	-	-	685	-	NP	82.23	0.00	88.46	6.23
04/01/02	-	-	-	-	-	-	-	-	NP	81.26	0.00	88.46	7.20
11/01/02	-	-	-	-	-	-	-	-	NP	85.61	0.00	88.46	2.85
04/01/03	-	-	-	-	-	-	-	-	NP	83.05	0.00	88.46	5.41
08/01/03	-	-	20000	1100	1500	9200	49	-	-	-	-	88.46	88.46
11/01/03	62	-	21000	1000	1500	7300	<200	-	NP	86.20	0.00	88.46	2.26
03/30/04	56	-	16000	290	1200	5000	<50	-		85.54	0.00	88.46	2.92
	WELL DESTROYED												
WELL # A-46													
12/20/90	-	-	-	-	-	-	-	-	NP	88.25	0.00	94.70	6.45
02/19/91	-	-	-	-	-	-	-	-	NP	88.52	0.00	94.70	6.18
03/02/92	-	-	-	-	-	-	-	-	89.08	89.83	0.75	93.67	4.41
11/20/92	-	-	-	-	-	-	-	-	89.66	91.28	1.62	93.67	3.61
02/27/93	-	-	-	-	-	-	-	-	88.94	90.03	1.09	93.67	4.46
04/18/94	-	-	-	-	-	-	-	-	84.53	85.66	1.13	93.67	8.86
04/20/95	-	-	-	-	-	-	-	-	80.38	80.46	0.08	93.67	13.27
04/10/96	-	-	-	-	-	-	-	-	77.08	77.09	0.01	93.67	16.59
04/30/97	-	-	-	-	-	-	-	-	74.85	74.70	0.05	93.67	19.01
04/22/98	-	-	-	-	-	-	-	-	73.91	73.94	0.03	93.67	19.75
04/26/99	-	-	-	-	-	-	-	-	72.82	72.83	0.01	93.67	20.85
05/01/07	-	-	-	-	-	-	-	-	NP	77.75	0.00	93.67	15.92
	WELL DESTROYED												
WELL # A-46A	Area = PUA N of Orden												
03/29/06	5.88	-	1550	3.9J	<0.2	8	<0.6	-	NP	79.17	0.00	94.08	14.91
12/05/06	-	-	-	-	-	-	-	-	NP	78.44	0.00	94.08	15.64
05/01/07	-	-	-	-	-	-	-	-	NP	77.75	0.00	94.08	16.33
09/26/07	-	-	-	-	-	-	-	-	NP	77.90	0.00	94.08	16.18
03/27/08	-	-	-	-	-	-	-	-	NP	78.24	0.00	94.08	15.84
09/22/08	-	-	-	-	-	-	-	-	NP	79.25	0.00	94.08	14.83
03/26/09	-	-	-	-	-	-	-	-	NP	79.82	0.00	94.08	14.26
10/13/09	-	-	-	-	-	-	-	-	NP	80.35	0.00	94.08	13.73
05/04/10	-	-	-	-	-	-	-	-	NP	80.62	0.00	94.08	13.46
10/06/10	-	-	-	-	-	-	-	-	NP	80.90	0.00	94.08	13.18
03/30/11	-	-	-	-	-	-	-	-	NP	80.88	0.00	94.08	13.20
09/26/11	-	-	-	-	-	-	-	-	NP	80.54	0.00	94.08	13.54
04/03/12	-	-	-	-	-	-	-	-	NP	79.95	0.00	94.08	14.13
09/26/12	-	-	-	-	-	-	-	-	NP	79.65	0.00	94.08	14.43
03/20/13	-	-	-	-	-	-	-	-	NP	79.57	0.00	94.08	14.51
09/25/13	-	-	-	-	-	-	-	-	NP	80.19	0.00	94.08	13.89
04/02/14	-	-	-	-	-	-	-	-	NP	80.62	0.00	94.08	13.46
WELL # A-47													
12/20/90	-	-	-	-	-	-	-	-	NP	92.90	0.00	88.44	-4.46
02/19/91	-	-	-	-	-	-	-	-	NP	91.28	0.00	88.44	-2.84
03/02/92	-	-	-	-	-	-	-	-	NP	90.83	0.00	88.46	-2.37
08/22/92	-	-	-	-	-	-	-	-	93.71	93.79	0.08	88.46	-5.27
02/27/93	-	-	-	-	-	-	-	-	NP	89.90	0.00	88.46	-1.44
04/18/94	-	-	-	-	-	-	-	-	NP	85.67	0.00	88.46	2.79
04/20/95	-	-	-	-	-	-	-	-	NP	79.62	0.00	88.46	8.84
04/10/96	-	-	-	-	-	-	-	-	NP	76.68	0.00	88.46	11.78
05/01/97	-	-	-	-	-	-	-	-	NP	74.10	0.00	88.46	14.36
04/21/98	-	-	-	-	-	-	-	-	NP	74.24	0.00	88.46	14.22
04/26/99	-	-	-	-	-	-	-	-	NP	73.92	0.00	88.46	14.54
04/10/00	-	-	-	-	-	-	-	-	NP	76.32	0.00	88.46	12.14
04/03/01	-	-	-	-	-	-	-	-	NP	77.92	0.00	88.46	10.54
04/01/02	-	-	-	-	-	-	-	-	79.86	80.39	0.53	88.46	8.47
11/01/02	-	-	-	-	-	-	-	-	84.46	85.44	0.98	88.46	3.74
04/01/03	-	-	-	-	-	-	-	-	81.88	81.90	0.02	88.46	6.58
11/01/03	-	-	-	-	-	-	-	-	85.75	86.02	0.27	88.46	2.64
03/30/04	-	-	-	-	-	-	-	-	84.89	84.95	0.06	88.46	3.58
	WELL DESTROYED												

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
WELL # A-48	Area = STF S of Foster												
02/21/91	-	-	-	-	-	-	-	-	91.37	92.00	0.63	88.83	-2.69
03/02/92	-	-	-	-	-	-	-	-	89.67	97.83	6.16	88.85	-2.82
08/22/92	-	-	-	-	-	-	-	-	94.20	95.57	1.37	88.85	-5.69
02/27/93	-	-	-	-	-	-	-	-	NP	90.40	0.00	88.85	-1.55
04/18/94	-	-	-	-	-	-	-	-	86.25	87.33	1.08	88.85	2.34
04/20/95	-	-	-	-	-	-	-	-	NP	79.36	0.00	88.85	9.49
04/08/96	-	-	-	-	-	-	-	-	NP	76.83	0.00	88.85	12.02
05/01/97	-	-	-	-	-	-	-	-	74.44	74.45	0.01	88.85	14.41
04/21/98	-	-	-	-	-	-	-	-	74.55	74.56	0.01	88.85	14.30
04/26/99	-	-	-	-	-	-	-	-	74.20	74.22	0.02	88.85	14.65
04/10/00	-	-	-	-	-	-	-	-	76.55	76.60	0.05	88.85	12.29
04/03/01	-	-	-	-	-	-	-	-	78.16	78.23	0.07	88.85	10.67
04/01/02	-	-	-	-	-	-	-	-	-	80.12	0.00	88.85	8.73
11/01/02	-	-	-	-	-	-	-	-	-	84.09	0.00	88.85	4.76
04/01/03	-	-	-	-	-	-	-	-	-	81.83	0.00	88.85	7.02
11/01/03	-	-	-	-	-	-	-	-	84.55	84.56	0.01	88.85	4.30
03/30/04	-	-	-	-	-	-	-	-	Film	84.08	Film	88.85	4.77
11/22/04	-	-	-	-	-	-	-	-	-	-	-	Temporarily Buried	0.00
03/29/05	-	-	-	-	-	-	-	-	-	-	-	Temporarily Buried	0.00
12/06/05	116.3	-	6890	1750	986	5430	<50	-	-	88.63	0.00	88.85	0.22
03/29/06	110	-	16800	4830	1580	8070	<0.6	-	-	-	-	91.04	91.04
12/05/06	-	-	-	-	-	-	-	-	NP	85.65	0.00	91.04	5.39
04/30/07	79.6	4.7	21700	6090	1660	5410	<19	-	NP	82.72	0.00	91.04	8.32
09/27/07	84	12	26000	3600	1760	7510	<10,000	<100,000	NP	87.06	0.00	91.04	3.98
04/22/08	78	6.0	24600	3200	1840	5790	<9.5	<500	FILM	88.20	-	91.04	-
09/25/08	59.3	4.3	16500	860	1400	3640	<19	<520	NP	89.40	0.00	91.04	1.64
03/27/09	-	-	-	-	-	-	-	-	NP	88.73	0.00	91.04	2.31
10/12/09	-	-	-	-	-	-	-	-	NP	91.70	0.00	91.04	-0.66
05/04/10	-	-	-	-	-	-	-	-	NP	90.05	0.00	91.04	0.99
10/06/10	-	-	-	-	-	-	-	-	NP	93.62	0.00	91.04	-2.58
03/30/11	-	-	-	-	-	-	-	-	NP	88.88	0.00	91.04	2.16
09/28/11	-	-	-	-	-	-	-	-	NP	88.00	0.00	91.04	3.04
04/03/12	-	-	-	-	-	-	-	-	NP	84.94	0.00	91.04	6.10
09/26/12	-	-	-	-	-	-	-	-	NP	86.75	0.00	91.04	4.29
03/20/13	-	-	-	-	-	-	-	-	NP	85.25	0.00	91.04	5.79
09/25/13	-	-	-	-	-	-	-	-	NP	89.15	0.00	91.04	1.89
04/02/14	-	-	-	-	-	-	-	-	NOACCESS	-	-	91.04	-
WELL # A-49													
02/19/91	-	-	-	-	-	-	-	-	NP	92.17	0.00	94.14	1.97
03/02/92	-	-	-	-	-	-	-	-	NP	92.09	0.00	93.12	1.03
08/22/92	-	-	-	-	-	-	-	-	NP	97.08	0.00	93.12	-3.96
02/27/93	-	-	-	-	-	-	-	-	NP	91.00	0.00	93.12	2.12
04/18/94	-	-	-	-	-	-	-	-	NP	81.90	0.00	93.12	11.22
04/20/95	-	-	-	-	-	-	-	-	NP	79.17	0.00	93.12	13.95
04/10/96	-	-	-	-	-	-	-	-	NP	76.31	0.00	93.12	16.81
04/30/97	-	-	-	-	-	-	-	-	NP	73.95	0.00	93.12	19.17
04/23/98	-	-	-	-	-	-	-	-	NP	73.17	0.00	93.12	19.95
04/26/99	-	-	-	-	-	-	-	-	NP	72.11	0.00	93.12	21.01
	WELL DESTROYED												
WELL # A-50													
02/19/91	-	-	-	-	-	-	-	-	NP	102.88	0.00	100.76	-2.12
03/02/92	-	-	-	-	-	-	-	-	NP	102.89	0.00	100.71	-2.18
11/20/92	-	-	-	-	-	-	-	-	NP	104.31	0.00	100.71	-3.60
02/27/93	-	-	-	-	-	-	-	-	NP	102.08	0.00	100.71	-1.37
04/18/94	-	-	-	-	-	-	-	-	NP	96.60	0.00	100.71	4.11
04/22/95	-	-	-	-	-	-	-	-	NP	91.73	0.00	100.71	8.98
04/10/96	-	-	-	-	-	-	-	-	NP	88.77	0.00	100.71	11.94
05/01/97	-	-	-	-	-	-	-	-	NP	86.56	0.00	100.71	14.15
04/23/98	-	-	-	-	-	-	-	-	NP	86.53	0.00	100.71	14.18
04/26/99	-	-	-	-	-	-	-	-	NP	86.22	0.00	100.71	14.49
	WELL DESTROYED												
WELL # A-51													
02/19/91	-	-	-	-	-	-	-	-	NP	106.90	0.00	105.72	-1.18
11/20/91	-	-	-	-	-	-	-	-	NP	108.25	0.00	105.66	-2.59
03/02/92	-	-	-	-	-	-	-	-	NP	107.00	0.00	105.66	-1.34
02/27/93	-	-	-	-	-	-	-	-	NP	105.29	0.00	105.66	0.37
04/18/94	-	-	-	-	-	-	-	-	NP	101.17	0.00	105.66	4.49
04/22/95	-	-	-	-	-	-	-	-	NP	96.38	0.00	105.66	9.28
04/10/96	-	-	-	-	-	-	-	-	NP	93.35	0.00	105.66	12.31
04/30/97	-	-	-	-	-	-	-	-	NP	90.80	0.00	105.66	14.86
04/23/98	-	-	-	-	-	-	-	-	NP	90.58	0.00	105.66	15.08
11/09/00	-	-	-	-	-	-	-	-	NP	-	0.00	105.66	105.66
	WELL DESTROYED												
WELL # A-52	Area = MA												
05/28/92	-	-	0.6	0.16	<1.0	0.03	-	-	NP	72.56	0.00	89.94	17.38
11/20/92	-	-	-	-	-	-	-	-	NP	72.92	0.00	89.94	17.02
02/27/93	-	-	-	-	-	-	-	-	NP	72.64	0.00	89.94	17.30
04/18/94	-	-	-	-	-	-	-	-	NP	68.50	0.00	89.94	21.44
04/22/95	-	-	-	-	-	-	-	-	NP	67.70	0.00	89.94	22.24
04/09/96	-	-	-	-	-	-	-	-	NP	65.19	0.00	89.94	24.75
04/30/97	-	-	-	-	-	-	-	-	NP	63.42	0.00	89.94	26.52

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Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
04/23/98	-	-	-	-	-	-	-	-	NP	61.95	0.00	89.94	27.99
04/27/99	-	-	-	-	-	-	-	-	NP	59.56	0.00	89.94	30.38
04/11/00	-	-	-	-	-	-	-	-	NP	60.62	0.00	89.94	29.32
04/03/01	-	-	-	-	-	-	-	-	NP	61.55	0.00	89.94	28.39
04/01/02	-	-	-	-	-	-	-	-	62.42	62.43	0.01	89.94	27.52
11/01/02	-	-	-	-	-	-	-	-	-	63.54	0.00	89.94	26.40
04/01/03	-	-	-	-	-	-	-	-	NP	63.79	0.00	89.94	26.15
11/01/03	-	-	-	-	-	-	-	-	NP	64.65	0.00	89.94	25.29
03/30/04	-	-	-	-	-	-	-	-	NP	65.12	0.00	89.94	24.82
11/22/04	-	-	-	-	-	-	-	-	65.71	68.71	3.00	89.94	23.50
03/29/05	-	-	-	-	-	-	-	-	65.98	68.47	2.49	89.94	23.36
12/06/05	-	-	-	-	-	-	-	-	66.58	67.20	0.62	89.94	23.21
04/11/06	-	-	-	-	-	-	-	-	66.08	68.15	2.07	89.94	23.35
04/30/07	-	-	-	-	-	-	-	-	63.24	64.80	1.56	89.94	26.32
09/26/07	-	-	-	-	-	-	-	-	63.10	65.23	2.13	90.62	27.00
03/27/08	-	-	-	-	-	-	-	-	63.43	66.10	2.67	90.62	26.54
09/22/08	-	-	-	-	-	-	-	-	64.35	65.33	0.98	90.62	26.03
03/26/09	-	-	-	-	-	-	-	-	65.05	65.12	0.07	90.62	25.55
10/12/09	-	-	-	-	-	-	-	-	65.88	65.96	0.08	90.62	24.72
05/04/10	-	-	-	-	-	-	-	-	66.85	67.16	0.31	90.62	23.69
10/06/10	-	-	-	-	-	-	-	-	67.48	67.60	0.12	90.62	23.11
03/30/11	-	-	-	-	-	-	-	-	67.54	67.65	0.11	90.62	23.06
09/28/11	-	-	-	-	-	-	-	-	67.45	67.55	0.10	90.62	23.15
04/03/12	-	-	-	-	-	-	-	-	NP	66.86	0.00	90.62	23.76
09/26/12	-	-	-	-	-	-	-	-	NP	66.74	0.00	90.62	23.88
03/20/13	-	-	-	-	-	-	-	-	NP	66.70	0.00	90.62	23.92
09/26/13	-	-	-	-	-	-	-	-	NP	66.98	0.00	90.62	23.64
04/02/14	-	-	-	-	-	-	-	-	NP	67.59	0.00	90.62	23.03
WELL # A-53													
11/01/93	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	100.46	0.00	104.91	4.45
02/04/94	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	96.00	0.00	104.91	8.91
04/18/94	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	93.80	0.00	104.91	11.11
11/05/94	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	95.84	0.00	104.91	9.07
04/20/95	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	89.85	0.00	104.91	15.06
11/08/95	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	93.16	0.00	104.91	11.75
04/11/96	-	-	<1.0	<1.0	<1.0	<1.0	<0.5	-	NP	87.76	0.00	104.91	17.15
11/12/96	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	90.50	0.00	104.91	14.41
04/28/97	-	-	3.4	1.6	0.5	4.6	-	-	NP	86.12	0.00	104.91	18.79
11/04/97	-	-	5.2	4.8	0.99	13	<0.5	-	NP	90.00	0.00	104.91	14.91
04/21/98	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	86.69	0.00	104.91	18.22
11/05/98	-	-	<1.0	<1.0	<1.0	0.8	<0.5	-	NP	89.90	0.00	104.91	15.01
04/27/99	-	-	6.2	<1.0	<1.0	<1.0	-	-	NP	87.11	0.00	104.91	17.80
11/01/99	-	-	7.2	1.0	1.0	1.0	<0.5	-	NP	92.33	0.00	104.91	12.58
04/11/00	-	-	1.0	2.3	<1.0	3.2	-	-	NP	91.18	0.00	104.91	13.73
	WELL DESTROYED												
WELL # A-54													
11/01/93	-	-	1200	100	100	1200	-	-	NP	87.98	0.00	95.82	7.68
02/05/94	-	-	1000	20	30	890	-	-	NP	86.98	0.00	95.82	8.86
04/18/94	-	-	980	31	34	760	-	-	NP	82.47	0.00	95.82	13.35
11/05/94	-	-	1400	37	86	1200	-	-	NP	80.65	0.00	95.82	15.17
04/20/95	-	-	520	8.4	23	590	-	-	NP	78.61	0.00	95.82	17.21
11/08/95	-	-	140	1.4	13	158	-	-	NP	77.08	0.00	95.82	18.74
04/11/96	-	-	300	1.2	10	110	<0.5	-	NP	75.68	0.00	95.82	20.14
11/11/96	-	-	100	3	6	46	-	-	NP	74.50	0.00	95.82	21.32
04/29/97	-	-	22	2.8	0.5	15	-	-	NP	73.15	0.00	95.82	22.67
11/04/97	-	-	16	0.5	0.5	6.4	<0.5	-	NP	72.82	0.00	95.82	23.00
04/21/98	-	-	0.5	0.5	0.5	0.5	-	-	NP	71.74	0.00	95.82	24.08
11/05/98	-	-	9.6	0.5	0.93	3.5	<0.5	-	NP	71.04	0.00	95.82	24.78
	WELL DESTROYED												
WELL # A-55													
02/04/94	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	94.29	0.00	102.45	8.16
04/18/94	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	92.11	0.00	102.45	10.34
11/05/94	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	94.02	0.00	102.45	8.43
04/20/95	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	88.21	0.00	102.45	14.24
11/08/95	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	91.27	0.00	102.45	11.18
04/11/96	-	-	<1.0	<1.0	<1.0	<1.0	<0.5	-	NP	85.98	0.00	102.45	16.47
11/12/96	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	88.62	0.00	102.45	13.83
04/29/97	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	84.45	0.00	102.45	18.00
11/04/97	-	-	<1.0	<1.0	<1.0	<1.0	<0.5	-	NP	86.10	0.00	102.45	16.35
04/21/98	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	84.87	0.00	102.45	19.58
11/05/98	-	-	<1.0	<1.0	<1.0	<1.0	<0.5	-	NP	87.88	0.00	102.45	16.57
04/27/99	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	83.17	0.00	102.45	19.28
11/01/99	-	-	8.4	<1.0	<1.0	<1.0	<0.5	-	NP	90.24	0.00	102.45	14.21
04/11/00	-	-	1.3	1.6	<1.0	2.4	-	-	NP	89.04	0.00	102.45	15.41
	WELL DESTROYED												
WELL # A-56													
02/03/94	-	-	32	1.3	6.2	15	-	-	NP	91.42	0.00	99.40	7.98
04/18/94	-	-	16	5.3	3.0	9	-	-	NP	89.26	0.00	99.40	10.14
11/05/94	-	-	6.9	1.0	1.2	6.2	-	-	NP	91.03	0.00	99.40	8.37
04/20/95	-	-	4.4	0.5	1.0	0.8	-	-	NP	89.10	0.00	99.40	10.30
11/08/95	-	-	0.7	0.5	0.5	0.5	-	-	NP	88.23	0.00	99.40	11.17
04/10/96	-	-	2.3	0.5	1.0	1.7	<0.5	-	NP	89.01	0.00	99.40	10.39

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
11/12/96	-	-	1.0	1.0	2.0	13	-	-	NP	85.69	0.00	99.40	13.71
04/29/97	-	-	35	5.2	31	87	-	-	NP	81.50	0.00	99.40	17.90
11/04/97	-	-	29	7.0	12	33	<0.5	-	NP	85.09	0.00	99.40	14.31
04/21/98	-	-	18	1.3	3.9	34	-	-	NP	81.96	0.00	99.40	17.44
11/05/98	-	-	50	3.3	29	26	<0.5	-	NP	84.90	0.00	99.40	14.50
04/28/99	-	-	8.0	1.1	0.6	19	-	-	NP	82.21	0.00	99.40	17.19
11/01/99	-	-	12	3.1	3.5	28	14	-	NP	87.15	0.00	99.40	12.25
04/11/00	-	-	0.2	1.4	0.8	3.6	-	-	NP	85.94	0.00	99.40	13.46
WELL DESTROYED													
WELL # A-56A	Area = WTF												
11/26/03	-	-	-	-	-	-	-	-	NP	82.14	0.00	102.84	20.70
03/30/04	-	-	-	-	-	-	-	-	NP	82.38	0.00	102.84	20.46
11/22/04	-	-	-	-	-	-	-	-	NP	83.22	0.00	102.84	19.62
03/29/05	-	-	-	-	-	-	-	-	NP	83.16	0.00	102.84	19.68
12/08/05	-	-	-	-	-	-	-	-	NP	82.77	0.00	102.84	20.07
04/11/06	-	-	-	-	-	-	-	-	NP	81.29	0.00	102.84	21.55
12/05/06	-	-	-	-	-	-	-	-	NP	79.16	0.00	102.84	23.68
05/01/07	-	-	-	-	-	-	-	-	NP	79.62	0.00	102.84	23.22
03/27/08	-	-	-	-	-	-	-	-	NP	80.62	0.00	102.84	22.22
09/22/08	-	-	-	-	-	-	-	-	NP	82.10	0.00	102.84	20.74
03/26/09	-	-	-	-	-	-	-	-	NP	82.64	0.00	102.84	20.20
10/13/09	-	-	-	-	-	-	-	-	NP	83.36	0.00	102.84	19.48
05/04/10	-	-	-	-	-	-	-	-	NP	83.92	0.00	102.84	18.92
10/06/10	-	-	-	-	-	-	-	-	NP	84.75	0.00	102.84	18.09
03/30/11	-	-	-	-	-	-	-	-	NP	84.58	0.00	102.84	18.26
09/28/11	-	-	-	-	-	-	-	-	NP	84.40	0.00	102.84	18.44
04/03/12	-	-	-	-	-	-	-	-	NP	83.35	0.00	102.84	19.49
09/26/12	-	-	-	-	-	-	-	-	NP	83.27	0.00	102.84	19.57
03/20/13	-	-	-	-	-	-	-	-	NP	83.35	0.00	102.84	19.49
09/25/13	-	-	-	-	-	-	-	-	NP	84.15	0.00	102.84	18.69
04/02/14	-	-	-	-	-	-	-	-	NP	84.79	0.00	102.84	18.05
WELL # A-57													
02/03/94	-	-	160	110	830	5500	-	-	NP	80.42	0.00	95.16	14.74
04/18/94	-	-	160	110	880	2600	-	-	NP	79.75	0.00	95.16	15.41
11/05/94	-	-	340	200	710	5300	-	-	NP	78.17	0.00	95.16	16.99
04/20/95	-	-	170	100	660	3800	-	-	NP	76.66	0.00	95.16	18.50
11/06/95	-	-	7800	7.6	2800	6200	-	-	NP	75.03	0.00	95.16	20.13
04/10/96	-	-	140	56	860	4300	<0.5	-	NP	73.81	0.00	95.16	21.35
11/12/96	-	-	100	60	710	3400	-	-	NP	72.62	0.00	95.16	22.54
04/30/97	-	-	140	53	420	2200	-	-	NP	71.31	0.00	95.16	23.85
11/04/97	-	-	150	0.5	660	830	<0.5	-	NP	70.87	0.00	95.16	24.29
04/21/98	-	-	110	47	590	2400	-	-	NP	69.90	0.00	95.16	25.26
11/05/98	-	-	75	38	850	2800	-	-	NP	68.14	0.00	95.16	27.02
04/28/99	-	-	150	24	0.5	900	<5.0	-	NP	68.72	0.00	95.16	26.44
11/01/99	-	-	55	17	100	710	<0.5	-	NP	68.41	0.00	95.16	26.75
WELL DESTROYED													
WELL # A-60	Area = PUA Marquardt												
03/29/05	<0.1	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	107.12	0.00	109.74	2.62
06/28/05	<0.1	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	-	-	-	-
12/07/05	-	-	-	-	-	-	-	-	NP	108.15	0.00	109.74	1.59
04/11/06	-	-	-	-	-	-	-	-	NP	106.49	0.00	111.83	5.34
12/05/06	-	-	-	-	-	-	-	-	NP	105.55	0.00	111.83	6.28
05/01/07	-	-	-	-	-	-	-	-	NP	103.86	0.00	111.83	7.97
09/25/07	-	-	-	-	-	-	-	-	NP	104.76	0.00	111.83	7.07
03/27/08	-	-	-	-	-	-	-	-	NP	105.65	0.00	111.83	6.18
09/22/08	-	-	-	-	-	-	-	-	NP	107.19	0.00	111.83	4.64
03/26/09	-	-	-	-	-	-	-	-	NP	108.30	0.00	111.83	3.53
10/12/09	-	-	-	-	-	-	-	-	NP	110.48	0.00	111.83	1.35
05/04/10	-	-	-	-	-	-	-	-	NP	110.18	0.00	111.83	1.65
10/06/10	-	-	-	-	-	-	-	-	NP	111.52	0.00	111.83	0.31
03/30/11	-	-	-	-	-	-	-	-	NP	109.50	0.00	111.83	2.33
09/28/11	-	-	-	-	-	-	-	-	NP	108.68	0.00	111.83	3.15
04/03/12	-	-	-	-	-	-	-	-	NP	106.62	0.00	111.83	5.21
09/26/12	-	-	-	-	-	-	-	-	NP	106.98	0.00	111.83	4.85
03/20/13	-	-	-	-	-	-	-	-	NP	105.75	0.00	111.83	6.08
09/23/13	-	-	-	-	-	-	-	-	NP	107.30	0.00	111.83	4.53
04/01/14	-	-	-	-	-	-	-	-	NP	108.65	0.00	111.83	3.18
WELL # A-61	Area = PUA												
03/29/06	392	-	4740	19200	11200	92600	<0.6	-	82.90	83.90	1.00	95.86	12.72
12/05/06	-	-	-	-	-	-	-	-	82.90	83.59	0.69	95.86	12.79
04/30/07	-	-	-	-	-	-	-	-	81.03	81.77	0.74	95.86	14.65
09/26/07	-	-	-	-	-	-	-	-	81.50	81.57	0.07	95.86	14.34
04/22/08	94.2	11	4450	21300	3050	22200	47.5	<2,500	82.21	82.30	0.09	95.86	13.83
09/25/08	-	-	-	-	-	-	-	-	83.18	85.41	2.23	95.86	12.13
03/27/09	-	-	-	-	-	-	-	-	84.25	84.74	0.49	95.86	11.49
10/12/09	-	-	-	-	-	-	-	-	85.50	86.17	0.67	95.86	10.20
05/04/10	-	-	-	-	-	-	-	-	85.70	86.02	0.32	95.86	10.08
10/06/10	-	-	-	-	-	-	-	-	86.53	87.23	0.70	95.86	9.16
03/30/11	-	-	-	-	-	-	-	-	85.02	85.38	0.36	95.86	10.75
09/28/11	-	-	-	-	-	-	-	-	NP	85.14	0.00	95.86	10.72
04/03/12	-	-	-	-	-	-	-	-	NP	83.65	0.00	95.86	12.21

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Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	Ethylbenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
09/26/12	-	-	-	-	-	-	-	-	NP	83.43	0.00	95.86	12.43
03/20/13	-	-	-	-	-	-	-	-	NP	83.12	0.00	95.86	12.74
09/25/13	-	-	-	-	-	-	-	-	FILM	85.47	0.00	95.86	10.39
04/02/14	-	-	-	-	-	-	-	-	FILM	85.21	0.00	95.88	10.65
WELL # A-62	Area = PUA												
04/12/06	-	-	-	-	-	-	-	-	59.32	70.63	11.31	91.82	29.73
12/05/06	-	-	-	-	-	-	-	-	58.70	69.68	10.98	91.82	30.43
05/01/07	-	-	-	-	-	-	-	-	59.45	59.76	0.31	91.82	32.29
09/26/07	-	-	-	-	-	-	-	-	59.45	60.25	0.80	91.82	32.17
03/27/08	-	-	-	-	-	-	-	-	58.85	70.25	11.40	91.82	30.18
09/22/08	-	-	-	-	-	-	-	-	59.60	59.95	0.35	91.82	32.13
03/26/09	-	-	-	-	-	-	-	-	59.98	60.00	0.02	91.82	31.84
10/12/09	-	-	-	-	-	-	-	-	59.05	59.80	0.75	91.82	32.59
05/04/10	-	-	-	-	-	-	-	-	59.43	59.52	0.09	91.82	32.37
10/06/10	-	-	-	-	-	-	-	-	NO ACCESS	-	-	91.82	-
03/30/11	-	-	-	-	-	-	-	-	59.47	59.78	0.31	91.82	32.27
09/28/11	-	-	-	-	-	-	-	-	59.59	59.81	0.22	91.82	32.18
04/03/12	-	-	-	-	-	-	-	-	59.75	60.00	0.25	91.82	32.01
09/26/12	-	-	-	-	-	-	-	-	59.76	59.88	0.12	91.82	32.03
03/20/13	-	-	-	-	-	-	-	-	59.65	59.72	0.07	91.82	32.15
09/25/13	-	-	-	-	-	-	-	-	FILM	59.56	0.00	91.82	32.27
04/02/14	-	-	-	-	-	-	-	-	59.35	59.37	0.02	91.82	32.47
WELL # A-63	Area = PUA												
04/11/06	-	-	-	-	-	-	-	-	NP	80.08	0.00	94.42	14.34
12/05/06	-	-	-	-	-	-	-	-	79.13	80.55	1.42	94.42	13.87
05/01/07	-	-	-	-	-	-	-	-	78.35	78.95	0.60	94.42	15.92
09/26/07	-	-	-	-	-	-	-	-	78.55	79.52	0.97	94.42	15.63
03/27/08	-	-	-	-	-	-	-	-	79.20	80.25	1.05	94.42	14.96
09/22/08	-	-	-	-	-	-	-	-	NP	80.15	0.00	94.42	14.27
03/26/09	-	-	-	-	-	-	-	-	NP	78.80	0.00	94.42	15.62
10/12/09	-	-	-	-	-	-	-	-	NP	78.24	0.00	94.42	16.18
05/04/10	-	-	-	-	-	-	-	-	NP	77.27	0.00	94.42	17.15
10/06/10	-	-	-	-	-	-	-	-	NP	76.42	0.00	94.42	18.00
03/30/11	-	-	-	-	-	-	-	-	NP	74.37	0.00	94.42	20.05
09/28/11	-	-	-	-	-	-	-	-	NP	75.02	0.00	94.42	19.40
04/03/12	-	-	-	-	-	-	-	-	NP	74.01	0.00	94.42	20.41
09/26/12	-	-	-	-	-	-	-	-	NP	75.15	0.00	94.42	19.27
03/20/13	-	-	-	-	-	-	-	-	NP	75.03	0.00	94.42	19.39
09/23/13	-	-	-	-	-	-	-	-	NP	69.20	0.00	94.42	25.22
04/01/14	-	-	-	-	-	-	-	-	NP	76.80	0.00	94.42	17.62
WELL # A-64	Area = PUA												
04/11/06	-	-	-	-	-	-	-	-	NP	86.62	0.00	94.39	7.77
12/05/06	-	-	-	-	-	-	-	-	NP	87.62	0.00	94.39	6.77
05/01/07	-	-	-	-	-	-	-	-	NP	84.53	0.00	94.39	9.86
09/26/07	-	-	-	-	-	-	-	-	NP	88.22	0.00	94.39	6.17
03/27/08	-	-	-	-	-	-	-	-	NP	87.70	0.00	94.39	6.69
09/22/08	-	-	-	-	-	-	-	-	NP	91.35	0.00	94.39	3.04
03/26/09	-	-	-	-	-	-	-	-	NP	90.05	0.00	94.39	4.34
10/12/09	-	-	-	-	-	-	-	-	NP	93.08	0.00	94.39	1.31
05/04/10	-	-	-	-	-	-	-	-	NP	92.55	0.00	94.39	1.84
10/06/10	-	-	-	-	-	-	-	-	NO ACCESS	-	-	94.39	-
03/30/11	-	-	-	-	-	-	-	-	NP	90.07	0.00	94.39	4.32
09/28/11	-	-	-	-	-	-	-	-	NP	89.55	0.00	94.39	4.84
04/03/12	-	-	-	-	-	-	-	-	NP	86.42	0.00	94.39	7.97
09/26/12	-	-	-	-	-	-	-	-	NO ACCESS	-	-	94.39	-
03/20/13	-	-	-	-	-	-	-	-	NP	87.57	0.00	94.39	6.82
09/25/13	-	-	-	-	-	-	-	-	NP	91.30	0.00	94.39	3.09
04/02/14	-	-	-	-	-	-	-	-	NP	91.00	0.00	94.39	3.39
WELL # A-65	Area = PUA												
04/11/06	-	-	-	-	-	-	-	-	NP	92.53	0.00	98.59	6.06
12/05/06	-	-	-	-	-	-	-	-	NP	93.28	0.00	98.59	5.31
05/01/07	-	-	-	-	-	-	-	-	NP	90.80	0.00	98.59	7.79
09/26/07	-	-	-	-	-	-	-	-	NP	93.08	0.00	98.59	5.51
03/27/08	-	-	-	-	-	-	-	-	NP	93.48	0.00	98.59	5.11
09/22/08	-	-	-	-	-	-	-	-	NP	94.10	0.00	98.59	4.49
03/26/09	-	-	-	-	-	-	-	-	NP	96.18	0.00	98.59	2.41
10/12/09	-	-	-	-	-	-	-	-	NP	96.26	0.00	98.59	2.33
05/04/10	-	-	-	-	-	-	-	-	DRY	-	0.00	98.59	-
10/06/10	-	-	-	-	-	-	-	-	DRY	-	0.00	98.59	-
03/30/11	-	-	-	-	-	-	-	-	DRY	-	0.00	98.59	-
09/28/11	-	-	-	-	-	-	-	-	NP	95.69	0.00	98.59	2.90
04/03/12	-	-	-	-	-	-	-	-	NP	93.14	0.00	98.59	5.45
09/26/12	-	-	-	-	-	-	-	-	NP	93.95	0.00	98.59	4.64
03/20/13	-	-	-	-	-	-	-	-	NP	93.08	0.00	98.59	5.51
09/25/13	-	-	-	-	-	-	-	-	NP	96.10	0.00	98.59	2.49
04/02/14	-	-	-	-	-	-	-	-	DRY	-	0.00	98.59	-

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
WELL # A-66	Area = PUA												
06/14/06	-	-	-	-	-	-	-	-	NP	73.10	0.00	99.83	26.73
12/05/06	-	-	-	-	-	-	-	-	NP	72.93	0.00	99.83	26.90
05/01/07	-	-	-	-	-	-	-	-	-	-	0.00	99.83	99.83
09/26/07	-	-	-	-	-	-	-	-	NO ACCESS	-	-	99.83	-
03/27/08	-	-	-	-	-	-	-	-	NO ACCESS	-	-	99.83	-
09/22/08	-	-	-	-	-	-	-	-	NO ACCESS	-	-	99.83	-
03/26/09	-	-	-	-	-	-	-	-	NO ACCESS	-	-	99.83	-
10/13/09	-	-	-	-	-	-	-	-	NO ACCESS	-	-	99.83	-
05/04/10	-	-	-	-	-	-	-	-	NO ACCESS	-	-	99.83	-
10/06/10	-	-	-	-	-	-	-	-	NO ACCESS	-	-	99.83	-
03/30/11	-	-	-	-	-	-	-	-	NO ACCESS	-	-	99.83	-
09/28/11	-	-	-	-	-	-	-	-	NP	73.03	0.00	99.83	26.80
04/03/12	-	-	-	-	-	-	-	-	NP	73.38	0.00	99.83	26.45
09/26/12	-	-	-	-	-	-	-	-	NP	73.65	0.00	99.83	26.18
03/20/13	-	-	-	-	-	-	-	-	NP	73.95	0.00	99.83	25.88
09/25/13	-	-	-	-	-	-	-	-	NP	74.28	0.00	99.83	25.55
04/02/14	-	-	-	-	-	-	-	-	NP	74.44	0.00	99.83	25.39
WELL # A-67	Area = PUA												
04/11/06	-	-	-	-	-	-	-	-	80.88	82.34	1.46	92.63	11.39
12/05/06	-	-	-	-	-	-	-	-	80.75	80.80	0.05	92.63	11.87
05/01/07	-	-	-	-	-	-	-	-	NP	79.23	0.00	92.63	13.40
09/26/07	-	-	-	-	-	-	-	-	NP	80.18	0.00	92.63	12.45
03/27/08	-	-	-	-	-	-	-	-	NP	80.86	0.00	92.63	11.77
09/22/08	-	-	-	-	-	-	-	-	82.37	83.57	1.20	92.63	9.97
03/26/09	-	-	-	-	-	-	-	-	82.41	84.50	2.09	92.63	9.71
10/12/09	-	-	-	-	-	-	-	-	84.26	85.55	1.29	92.63	8.05
05/04/10	-	-	-	-	-	-	-	-	83.78	85.54	1.76	92.63	8.42
10/06/10	-	-	-	-	-	-	-	-	84.71	87.11	2.40	92.63	7.33
03/30/11	-	-	-	-	-	-	-	-	83.74	85.16	1.42	92.63	8.54
09/28/11	-	-	-	-	-	-	-	-	82.92	84.20	1.28	92.63	9.40
04/03/12	-	-	-	-	-	-	-	-	81.55	81.88	0.33	92.63	11.00
09/26/12	-	-	-	-	-	-	-	-	81.45	82.35	0.90	92.63	10.96
03/20/13	-	-	-	-	-	-	-	-	NP	81.23	0.00	92.63	11.40
09/25/13	-	-	-	-	-	-	-	-	82.61	83.80	1.19	92.63	9.73
04/02/14	-	-	-	-	-	-	-	-	83.37	83.77	0.40	92.63	9.16
WELL # A-71	Area = PUA												
04/12/06	-	-	-	-	-	-	-	-	80.46	85.10	4.64	95.17	13.57
12/05/06	-	-	-	-	-	-	-	-	79.03	83.05	4.02	95.17	16.16
05/01/07	-	-	-	-	-	-	-	-	78.60	80.93	2.33	95.17	16.00
09/26/07	-	-	-	-	-	-	-	-	78.98	81.50	2.52	95.17	16.57
03/27/08	-	-	-	-	-	-	-	-	79.77	81.02	1.25	95.17	15.09
09/22/08	-	-	-	-	-	-	-	-	80.90	81.37	0.47	95.17	14.15
03/26/09	-	-	-	-	-	-	-	-	80.68	82.35	1.67	95.17	14.08
10/12/09	-	-	-	-	-	-	-	-	81.88	85.18	3.30	95.17	12.48
05/04/10	-	-	-	-	-	-	-	-	82.23	85.45	3.22	95.17	12.15
10/06/10	-	-	-	-	-	-	-	-	82.79	84.98	2.19	95.17	11.84
03/30/11	-	-	-	-	-	-	-	-	83.00	83.09	0.09	95.17	12.15
09/28/11	-	-	-	-	-	-	-	-	82.11	84.17	2.06	95.17	12.56
04/03/12	-	-	-	-	-	-	-	-	80.96	84.30	3.32	95.17	13.39
09/26/12	-	-	-	-	-	-	-	-	80.81	83.67	2.85	95.17	13.66
03/20/13	-	-	-	-	-	-	-	-	80.60	83.90	3.30	95.17	13.76
09/23/13	-	-	-	-	-	-	-	-	81.85	83.72	1.87	95.17	12.66
04/01/14	-	-	-	-	-	-	-	-	82.18	83.97	1.79	95.17	12.56
WELL # A-72	Area = PUA												
04/12/06	-	-	-	-	-	-	-	-	64.77	82.25	17.48	93.78	24.73
12/05/06	-	-	-	-	-	-	-	-	64.32	81.55	17.23	93.78	25.24
05/01/07	-	-	-	-	-	-	-	-	65.47	82.02	16.55	93.78	24.28
09/26/07	-	-	-	-	-	-	-	-	69.39	85.35	15.96	93.78	20.48
03/27/08	-	-	-	-	-	-	-	-	71.02	71.12	0.10	93.78	22.74
09/22/08	-	-	-	-	-	-	-	-	71.28	71.30	0.02	93.78	22.50
03/26/09	-	-	-	-	-	-	-	-	79.87	80.05	0.18	93.78	13.87
10/12/09	-	-	-	-	-	-	-	-	71.68	79.73	8.05	93.78	20.13
05/04/10	-	-	-	-	-	-	-	-	72.64	75.83	3.19	93.78	20.36
10/06/10	-	-	-	-	-	-	-	-	71.10	84.73	13.63	93.78	19.34
03/30/11	-	-	-	-	-	-	-	-	74.72	75.83	1.11	93.78	18.79
09/28/11	-	-	-	-	-	-	-	-	75.71	76.56	0.85	93.78	17.88
04/03/12	-	-	-	-	-	-	-	-	72.85	75.05	2.20	93.78	20.39
09/26/12	-	-	-	-	-	-	-	-	73.16	76.67	3.51	93.78	19.76
03/20/13	-	-	-	-	-	-	-	-	73.82	78.29	4.47	93.78	18.86
09/23/13	-	-	-	-	-	-	-	-	74.65	76.30	1.65	93.78	18.73
04/01/14	-	-	-	-	-	-	-	-	74.85	75.95	1.20	93.78	18.84
WELL # A-73	Area = PUA												
04/12/06	-	-	-	-	-	-	-	-	62.84	67.10	4.26	94.26	30.38
12/05/06	-	-	-	-	-	-	-	-	62.05	66.10	4.05	94.26	31.22
05/01/07	-	-	-	-	-	-	-	-	62.18	66.18	4.00	94.26	31.10
09/26/07	-	-	-	-	-	-	-	-	62.53	66.25	3.72	94.26	30.82
03/27/08	-	-	-	-	-	-	-	-	63.85	63.85	0.20	94.26	30.56
09/22/08	-	-	-	-	-	-	-	-	NP	63.71	0.00	94.26	30.55

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT (feet)	DEPTH TO GROUNDWATER (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)					
03/26/09	-	-	-	-	-	-	-	-	63.52	64.10	0.58	94.26	30.60
10/12/09	-	-	-	-	-	-	-	-	64.08	64.26	0.18	94.26	30.14
05/04/10	-	-	-	-	-	-	-	-	64.36	64.52	0.16	94.26	29.88
10/06/10	-	-	-	-	-	-	-	-	64.23	65.52	1.29	94.26	29.71
03/30/11	-	-	-	-	-	-	-	-	64.42	69.42	5.00	94.26	28.62
09/28/11	-	-	-	-	-	-	-	-	66.02	65.41	1.39	94.26	28.90
04/03/12	-	-	-	-	-	-	-	-	65.54	66.03	0.49	94.26	28.80
09/26/12	-	-	-	-	-	-	-	-	66.05	66.28	0.23	94.26	28.15
03/20/13	-	-	-	-	-	-	-	-	65.94	67.94	2.00	94.26	27.93
09/23/13	-	-	-	-	-	-	-	-	65.70	65.92	0.22	94.26	28.61
04/01/14	-	-	-	-	-	-	-	-	65.55	65.70	0.15	94.26	28.67
WELL # AL-1	Area = PUA N of Orden												
09/27/04	1.3	-	130	29	25	120	<1.0	-	NP	94.05	0.00	96.63	2.58
11/30/04	0.23	-	31	3.0	3.0	9.0	<1.0	-	NP	94.72	0.00	96.63	1.91
03/29/05	0.131	-	2.6	<1.0	<1.0	<1.0	<1.0	-	NP	93.42	0.00	96.63	3.21
06/28/05	<0.1	-	4.1	<1.5	<1.5	<1.5	<1.5	-	-	-	-	-	-
12/07/05	-	-	-	-	-	-	-	-	NP	95.04	0.00	96.63	1.59
04/11/06	-	-	-	-	-	-	-	-	NP	92.72	0.00	98.75	6.03
12/05/06	-	-	-	-	-	-	-	-	NP	92.37	0.00	98.75	6.38
05/01/07	-	-	-	-	-	-	-	-	NP	90.16	0.00	98.75	8.59
09/25/07	-	-	-	-	-	-	-	-	NP	92.05	0.00	98.75	6.70
03/27/08	-	-	-	-	-	-	-	-	NP	92.48	0.00	98.75	6.27
09/22/08	-	-	-	-	-	-	-	-	NP	94.77	0.00	98.75	3.98
03/26/09	-	-	-	-	-	-	-	-	NP	95.11	0.00	98.75	3.64
10/12/09	-	-	-	-	-	-	-	-	NP	97.43	0.00	98.75	1.32
05/04/10	-	-	-	-	-	-	-	-	NP	96.83	0.00	98.75	1.92
10/06/10	-	-	-	-	-	-	-	-	NP	98.25	0.00	98.75	0.50
03/30/11	-	-	-	-	-	-	-	-	NP	96.49	0.00	98.75	2.26
09/28/11	-	-	-	-	-	-	-	-	NP	95.20	0.00	98.75	3.55
04/03/12	-	-	-	-	-	-	-	-	NP	92.70	0.00	98.75	6.05
09/26/12	-	-	-	-	-	-	-	-	NP	93.17	0.00	98.75	5.58
03/20/13	-	-	-	-	-	-	-	-	NP	92.45	0.00	98.75	6.30
09/25/13	-	-	-	-	-	-	-	-	NP	95.12	0.00	98.75	3.63
04/02/14	-	-	-	-	-	-	-	-	NP	95.76	0.00	98.75	2.99
WELL # AL-2	Area = PUA N of Orden												
09/27/04	<0.1	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	92.67	0.00	97.02	4.35
11/30/04	<0.1	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	93.40	0.00	97.02	3.62
03/29/05	<0.1	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	93.62	0.00	97.02	3.40
06/28/05	<0.1	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	-	-	-	-
12/07/05	-	-	-	-	-	-	-	-	NP	94.58	0.00	97.02	2.44
04/11/06	-	-	-	-	-	-	-	-	NP	93.76	0.00	99.12	5.36
12/05/06	-	-	-	-	-	-	-	-	NP	92.35	0.00	99.12	6.77
05/01/07	-	-	-	-	-	-	-	-	NP	91.11	0.00	99.12	8.01
09/25/07	-	-	-	-	-	-	-	-	NP	91.25	0.00	99.12	7.87
03/27/08	-	-	-	-	-	-	-	-	NP	92.20	0.00	99.12	6.92
09/22/08	-	-	-	-	-	-	-	-	NO ACCESS	-	-	99.12	-
03/26/09	-	-	-	-	-	-	-	-	NO ACCESS	-	-	99.12	-
10/12/09	-	-	-	-	-	-	-	-	NO ACCESS	-	-	99.12	-
05/04/10	-	-	-	-	-	-	-	-	NO ACCESS	-	-	99.12	-
10/06/10	-	-	-	-	-	-	-	-	NO ACCESS	-	-	99.12	-
03/30/11	-	-	-	-	-	-	-	-	NO ACCESS	-	-	99.12	-
09/28/11	-	-	-	-	-	-	-	-	NO ACCESS	-	-	99.12	-
04/03/12	-	-	-	-	-	-	-	-	NP	93.92	0.00	99.12	5.20
09/26/12	-	-	-	-	-	-	-	-	NP	92.91	0.00	99.12	6.21
03/20/13	-	-	-	-	-	-	-	-	NP	92.73	0.00	99.12	6.39
09/25/13	-	-	-	-	-	-	-	-	NP	93.80	0.00	99.12	5.32
04/02/14	-	-	-	-	-	-	-	-	NP	95.03	0.00	99.12	4.09
WELL # AL-3	Area = PUA N of Orden												
09/27/04	<0.1	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	95.69	0.00	99.00	3.31
11/30/04	<0.1	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	96.58	0.00	99.00	2.42
03/29/05	<0.1	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	96.18	0.00	99.00	2.82
06/28/05	<0.1	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	-	-	-	-
12/07/05	-	-	-	-	-	-	-	-	NP	97.46	0.00	99.00	1.54
04/11/06	-	-	-	-	-	-	-	-	NP	96.00	0.00	101.09	5.09
12/05/06	-	-	-	-	-	-	-	-	NP	94.85	0.00	101.09	6.24
05/01/07	-	-	-	-	-	-	-	-	NP	93.18	0.00	101.09	7.91
09/25/07	-	-	-	-	-	-	-	-	NP	93.88	0.00	101.09	7.21
03/27/08	-	-	-	-	-	-	-	-	NP	94.83	0.00	101.09	6.26
09/22/08	-	-	-	-	-	-	-	-	NP	96.37	0.00	101.09	4.72
03/26/09	-	-	-	-	-	-	-	-	NP	97.51	0.00	101.09	3.58
10/12/09	-	-	-	-	-	-	-	-	NP	99.16	0.00	101.09	1.93
05/04/10	-	-	-	-	-	-	-	-	NP	99.23	0.00	101.09	1.86
10/06/10	-	-	-	-	-	-	-	-	NP	100.12	0.00	101.09	0.97
03/30/11	-	-	-	-	-	-	-	-	NP	99.35	0.00	101.09	1.74
09/28/11	-	-	-	-	-	-	-	-	NP	97.80	0.00	101.09	3.29
04/03/12	-	-	-	-	-	-	-	-	NP	95.74	0.00	101.09	5.35
09/26/12	-	-	-	-	-	-	-	-	NP	95.35	0.00	101.09	5.74

Table 2 - Summary of Historical Gauging and Chemical Data

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DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
03/20/13	-	-	-	-	-	-	-	-	NP	94.97	0.00	101.09	6.12
09/25/13	-	-	-	-	-	-	-	-	NP	96.68	0.00	101.09	4.41
04/02/14	-	-	-	-	-	-	-	-	NP	97.83	0.00	101.09	3.26
WELL # AO-1													
06/08/89	-	-	-	-	-	-	-	-	81.54	83.50	1.96	98.26	14.24
03/26/90	-	-	-	-	-	-	-	-	78.29	80.19	1.90	98.26	17.80
02/19/91	-	-	-	-	-	-	-	-	80.54	80.98	0.44	98.26	15.61
11/20/91	-	-	-	-	-	-	-	-	83.28	85.13	1.87	91.31	7.59
03/02/92	-	-	-	-	-	-	-	-	81.08	81.26	0.17	91.31	10.19
02/27/93	-	-	-	-	-	-	-	-	80.07	80.80	0.73	91.31	11.06
04/18/94	-	-	-	-	-	-	-	-	76.33	78.25	1.92	91.31	14.51
05/02/95	-	-	-	-	-	-	-	-	69.30	69.65	0.35	91.31	21.92
04/08/96	-	-	-	-	-	-	-	-	73.32	73.33	0.01	91.31	17.99
05/01/97	-	-	-	-	-	-	-	-	NP	71.04	0.00	91.31	20.27
04/22/98	-	-	-	-	-	-	-	-	NP	70.03	0.00	91.31	21.28
04/26/99	-	-	-	-	-	-	-	-	NP	69.10	0.00	91.31	22.21
04/11/00	-	-	-	-	-	-	-	-	NP	70.85	0.00	91.31	20.46
04/03/01	-	-	-	-	-	-	-	-	NP	71.90	0.00	91.31	19.41
04/01/02	-	-	-	-	-	-	-	-	NP	72.76	0.00	91.31	18.55
11/01/02	-	-	-	-	-	-	-	-	NP	83.64	0.00	91.31	7.67
04/01/03	-	-	-	-	-	-	-	-	NP	73.68	0.00	91.31	17.63
11/01/03	-	-	-	-	-	-	-	-	NP	74.18	0.00	91.31	17.13
03/30/04	-	-	-	-	-	-	-	-	NP	74.51	0.00	91.31	16.80
11/22/04	-	-	-	-	-	-	-	-	NP	74.98	0.00	91.31	16.35
03/29/05	-	-	-	-	-	-	-	-	NP	75.50	0.00	91.31	15.81
12/07/05	-	-	-	-	-	-	-	-	NP	75.72	0.00	91.31	15.59
04/11/06	-	-	-	-	-	-	-	-	NP	75.60	0.00	91.31	15.71
12/06/06	-	-	-	-	-	-	-	-	NP	75.05	0.00	91.31	16.26
05/01/07	-	-	-	-	-	-	-	-	NP	74.87	0.00	91.31	16.64
09/25/07	-	-	-	-	-	-	-	-	NP	74.72	0.00	91.31	16.59
03/27/08	-	-	-	-	-	-	-	-	NP	75.08	0.00	91.31	16.23
09/22/08	-	-	-	-	-	-	-	-	NP	75.60	0.00	91.31	15.71
12/10/08	WELL DESTROYED												
WELL # AO-2	Area = OFF-SITE S												
06/08/89	-	-	-	-	-	-	-	-	NP	72.38	0.00	85.61	13.23
03/26/90	-	-	-	-	-	-	-	-	NP	73.77	0.00	85.61	11.84
02/19/91	-	-	2400	870	40	240	-	-	NP	71.03	0.00	85.61	14.58
03/02/92	-	-	-	-	-	-	-	-	74.63	77.05	2.42	85.56	10.34
05/28/92	-	-	2400	870	40	240	-	-	74.42	76.50	2.08	85.56	10.65
11/20/92	-	-	-	-	-	-	-	-	74.79	77.48	2.69	85.56	10.11
04/01/03	-	-	-	-	-	-	-	-	-	-	-	Obstructed	-
11/01/03	-	-	-	-	-	-	-	-	-	-	-	-	-
03/30/04	-	-	-	-	-	-	-	-	-	-	-	not found	-
11/22/04	-	-	-	-	-	-	-	-	-	-	-	Obstructed	-
03/29/05	-	-	-	-	-	-	-	-	-	-	-	not found	-
12/06/05	-	-	-	-	-	-	-	-	-	-	-	not found	-
04/11/06	-	-	-	-	-	-	-	-	-	-	-	not found	-
12/06/06	-	-	-	-	-	-	-	-	-	-	-	-	-
05/01/07	-	-	-	-	-	-	-	-	-	-	-	-	-
03/27/08	-	-	-	-	-	-	-	-	NO ACCESS	-	-	-	-
09/22/08	-	-	-	-	-	-	-	-	NO ACCESS	-	-	-	-
03/26/09	-	-	-	-	-	-	-	-	NO ACCESS	-	-	-	-
10/13/09	-	-	-	-	-	-	-	-	NO ACCESS	-	-	-	-
05/04/10	-	-	-	-	-	-	-	-	NO ACCESS	-	-	-	-
10/06/10	-	-	-	-	-	-	-	-	NO ACCESS	-	-	-	-
03/30/11	-	-	-	-	-	-	-	-	NO ACCESS	-	-	-	-
09/28/11	-	-	-	-	-	-	-	-	NO ACCESS	-	-	-	-
04/03/12	-	-	-	-	-	-	-	-	NP	70.40	0.00	85.56	15.16
09/27/12	-	-	-	-	-	-	-	-	NP	70.19	0.00	85.56	15.37
03/22/13	-	-	-	-	-	-	-	-	NP	69.83	0.00	85.56	15.73
09/23/13	-	-	-	-	-	-	-	-	NP	70.62	0.00	85.56	14.94
04/01/14	-	-	-	-	-	-	-	-	NP	70.48	0.00	85.56	15.08
WELL # AO-3	Area = OFF-SITE S												
06/08/89	-	-	-	-	-	-	-	-	NP	67.42	0.00	86.98	19.56
03/26/90	-	-	-	-	-	-	-	-	NP	69.13	0.00	86.98	17.85
02/19/91	-	-	-	-	-	-	-	-	NP	70.65	0.00	86.98	16.33
03/02/92	-	-	-	-	-	-	-	-	NP	70.50	0.00	86.94	16.44
05/28/92	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	71.06	0.00	86.94	15.88
02/27/93	-	-	-	-	-	-	-	-	NP	70.11	0.00	86.94	16.83
04/18/94	-	-	-	-	-	-	-	-	NP	65.17	0.00	86.94	21.77
04/24/95	-	-	-	-	-	-	-	-	NP	62.82	0.00	86.94	24.12
04/08/96	-	-	-	-	-	-	-	-	NP	60.48	0.00	86.94	26.46
04/28/97	-	-	-	-	-	-	-	-	NP	58.44	0.00	86.94	28.50
04/22/98	-	-	-	-	-	-	-	-	NP	57.28	0.00	86.94	29.66
04/26/99	-	-	-	-	-	-	-	-	NP	55.37	0.00	86.94	31.57
04/12/00	-	-	-	-	-	-	-	-	NP	57.39	0.00	86.94	29.55
04/04/01	-	-	-	-	-	-	-	-	NP	58.72	0.00	86.94	28.22
04/01/02	-	-	-	-	-	-	-	-	NP	59.92	0.00	86.94	27.02
11/01/02	-	-	-	-	-	-	-	-	NP	61.43	0.00	86.94	25.51
04/01/03	-	-	-	-	-	-	-	-	NP	60.96	0.00	86.94	25.98
01/01/03	-	-	-	-	-	-	-	-	NP	62.20	0.00	86.94	24.74
03/30/04	-	-	-	-	-	-	-	-	NP	62.10	0.00	86.94	24.84

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
11/22/04	-	-	-	-	-	-	-	-	NP	64.15	0.00	86.94	22.79
03/29/05	-	-	-	-	-	-	-	-	NP	63.76	0.00	86.94	23.18
12/06/05	-	-	-	-	-	-	-	-	NP	63.70	0.00	86.94	23.24
04/11/06	-	-	-	-	-	-	-	-	NP	62.71	0.00	89.64	26.93
12/05/06	-	-	-	-	-	-	-	-	NP	61.98	0.00	89.64	27.66
05/01/07	-	-	-	-	-	-	-	-	NP	61.25	0.00	89.64	28.39
09/25/07	-	-	-	-	-	-	-	-	NP	61.98	0.00	89.64	27.66
03/27/08	-	-	-	-	-	-	-	-	NP	62.60	0.00	89.64	27.04
09/22/08	-	-	-	-	-	-	-	-	NP	63.62	0.00	89.64	26.02
03/26/09	-	-	-	-	-	-	-	-	NP	64.26	0.00	89.64	25.38
10/12/09	-	-	-	-	-	-	-	-	NP	65.51	0.00	89.64	24.13
05/04/10	-	-	-	-	-	-	-	-	NP	66.23	0.00	89.64	23.41
10/06/10	-	-	-	-	-	-	-	-	NP	66.80	0.00	89.64	22.84
03/30/11	-	-	-	-	-	-	-	-	NP	66.53	0.00	89.64	23.11
09/28/11	-	-	-	-	-	-	-	-	NP	65.90	0.00	89.64	23.74
04/03/12	-	-	-	-	-	-	-	-	NP	64.93	0.00	89.64	24.71
09/26/12	-	-	-	-	-	-	-	-	NP	64.73	0.00	89.64	24.91
03/20/13	-	-	-	-	-	-	-	-	NP	64.63	0.00	89.64	25.01
09/23/13	-	-	-	-	-	-	-	-	NP	65.68	0.00	89.64	23.96
04/01/14	-	-	-	-	-	-	-	-	NP	66.34	0.00	89.64	23.30
WELL # AO-5													
06/08/89	-	-	-	-	-	-	-	-	NP	59.21	0.00	79.52	20.31
03/28/90	-	-	-	-	-	-	-	-	NP	60.75	0.00	79.52	18.77
02/19/91	-	-	-	-	-	-	-	-	NP	62.23	0.00	79.52	17.29
11/20/91	-	-	-	-	-	-	-	-	NP	62.68	0.00	79.47	16.79
03/02/92	-	-	-	-	-	-	-	-	NP	61.88	0.00	79.47	17.59
05/28/92	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	61.46	0.00	79.47	18.01
02/27/93	-	-	-	-	-	-	-	-	NP	61.87	0.00	79.47	17.60
04/18/94	-	-	-	-	-	-	-	-	NP	58.33	0.00	79.47	21.14
04/24/95	-	-	-	-	-	-	-	-	NP	53.58	0.00	79.47	25.89
04/08/96	-	-	-	-	-	-	-	-	NP	51.58	0.00	79.47	27.89
11/03/97	-	-	-	-	-	-	-	-	NP	51.02	0.00	79.47	28.45
04/22/98	-	-	-	-	-	-	-	-	NP	48.62	0.00	79.47	30.85
04/29/99	-	-	-	-	-	-	-	-	NP	47.41	0.00	79.47	32.06
04/12/00	-	-	-	-	-	-	-	-	NP	49.50	0.00	79.47	29.97
04/04/01	-	-	-	-	-	-	-	-	NP	50.66	0.00	79.47	28.81
04/01/02	-	-	-	-	-	-	-	-	NP	51.82	0.00	79.47	27.65
11/01/02	-	-	-	-	-	-	-	-	NP	53.63	0.00	79.47	25.84
04/01/03	-	-	-	-	-	-	-	-	NP	52.55	0.00	79.47	26.92
11/01/03	-	-	-	-	-	-	-	-	NP	53.87	0.00	79.47	25.60
03/30/04	-	-	-	-	-	-	-	-	NP	53.44	0.00	79.47	26.03
11/22/04	-	-	-	-	-	-	-	-	NP	55.79	0.00	79.47	23.68
03/29/05	-	-	-	-	-	-	-	-	NP	54.90	0.00	79.47	24.57
12/06/05	-	-	-	-	-	-	-	-	NP	54.73	0.00	79.47	24.74
	WELL DESTROYED												
WELL # AO-6	Area = OFF-SITE 8												
06/08/89	-	-	-	-	-	-	-	-	NP	64.56	0.00	83.28	18.72
01/12/90	-	-	-	-	-	-	-	-	NP	65.53	0.00	83.28	17.75
03/26/90	-	-	-	-	-	-	-	-	NP	65.79	0.00	83.28	17.49
02/19/91	-	-	2400	570	-	-	-	-	NP	67.42	0.00	83.28	15.86
03/02/92	-	-	-	-	-	-	-	-	NP	67.75	0.00	83.29	15.54
05/28/92	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	67.46	0.00	83.29	15.83
11/20/92	-	-	-	-	-	-	-	-	NP	67.79	0.00	83.29	15.50
02/27/93	-	-	-	-	-	-	-	-	NP	67.67	0.00	83.29	15.62
04/18/94	-	-	-	-	-	-	-	-	NP	63.25	0.00	83.29	20.04
04/24/95	-	-	-	-	-	-	-	-	NP	62.34	0.00	83.29	20.95
04/08/96	-	-	-	-	-	-	-	-	NP	60.21	0.00	83.29	23.08
04/28/97	-	-	-	-	-	-	-	-	NP	58.21	0.00	83.29	25.08
04/22/98	-	-	-	-	-	-	-	-	NP	57.05	0.00	83.29	26.24
04/27/99	-	-	-	-	-	-	-	-	NP	55.54	0.00	83.29	27.75
04/12/00	-	-	-	-	-	-	-	-	NP	56.66	0.00	83.29	26.63
04/02/01	-	-	-	-	-	-	-	-	NP	57.60	0.00	83.29	25.69
04/01/02	-	-	-	-	-	-	-	-	NP	58.70	0.00	83.29	24.59
11/01/02	-	-	-	-	-	-	-	-	NP	59.75	0.00	83.29	23.54
04/01/03	-	-	-	-	-	-	-	-	NP	59.54	0.00	83.29	23.75
11/01/03	<0.1	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	60.30	0.00	83.29	22.99
03/30/04	<0.1	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	60.40	0.00	83.29	22.89
11/22/04	<0.1	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	61.82	0.00	83.29	21.47
03/29/05	-	-	-	-	-	-	-	-	NP	61.61	0.00	83.29	21.68
12/06/05	<0.05	-	<1.0	<5.0	<5.0	<5.0	<1.0	-	NP	61.40	0.00	83.29	21.89
03/29/06	<0.006	-	<0.3	<0.1	<0.2	<0.3	<0.6	-	NP	61.03	0.00	83.29	22.26
12/05/06	<0.0056	-	<0.32	<0.10	<0.24	<0.3	<0.83	-	NP	60.43	0.00	83.29	22.86
04/30/07	<0.0056	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	-	NP	59.78	0.00	83.29	23.51
09/28/07	<0.0056	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<10	NP	60.00	0.00	83.29	23.29
04/22/08	<0.0066	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<10	NP	60.70	0.00	83.29	22.59
09/25/08	<0.0066	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	61.25	0.00	83.29	22.04
03/31/09	<0.0066	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	62.18	0.00	83.29	21.11
09/30/09	<0.0066	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	62.95	0.00	83.29	20.34
05/05/10	<0.0066	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	63.58	0.00	83.29	19.71
10/06/10	-	-	-	-	-	-	-	-	NP	63.98	0.00	83.29	19.31
03/30/11	-	-	-	-	-	-	-	-	NP	63.80	0.00	83.29	19.49
09/28/11	-	-	-	-	-	-	-	-	NP	63.15	0.00	83.29	20.14
04/03/12	-	-	-	-	-	-	-	-	NP	62.50	0.00	83.29	20.79
09/26/12	-	-	-	-	-	-	-	-	NP	62.10	0.00	83.29	21.19

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	Ethylbenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
03/20/13	-	-	-	-	-	-	-	-	NP	62.05	0.00	83.29	21.24
09/23/13	-	-	-	-	-	-	-	-	NP	62.38	0.00	83.29	20.91
04/01/14	-	-	-	-	-	-	-	-	NP	63.00	0.00	83.29	20.29
WELL # AO-7	Area = OFF-SITE N												
12/13/89	-	-	-	-	-	-	-	-	NP	87.25	0.00	97.09	9.84
03/26/90	-	-	-	-	-	-	-	-	NP	87.07	0.00	97.09	10.02
08/28/90	-	-	-	-	-	-	-	-	NP	91.48	0.00	97.09	5.61
02/19/91	-	-	-	-	-	-	-	-	NP	88.05	0.00	97.09	9.04
09/01/91	-	-	-	-	-	-	-	-	NP	86.96	0.00	96.10	9.14
03/02/92	-	-	-	-	-	-	-	-	NP	85.21	0.00	96.10	10.89
05/28/92	-	-	1500	nd	11	nd	-	-	NP	84.54	0.00	96.10	11.56
02/27/93	-	-	-	-	-	-	-	-	NP	84.30	0.00	96.10	11.80
04/18/94	-	-	-	-	-	-	-	-	NP	80.08	0.00	96.10	16.02
04/20/95	-	-	0.1	0.1	0.1	0.1	-	-	NP	79.95	0.00	96.10	16.15
04/08/96	-	-	21	33	8.1	25	-	-	NP	77.96	0.00	96.10	18.14
05/01/97	-	-	100	-	-	-	-	-	NP	75.65	0.00	96.10	20.45
04/22/98	-	-	3.6	1.4	1	3.6	-	-	NP	74.58	0.00	96.10	21.52
04/29/99	-	-	1	0.5	0.5	1.3	-	-	NP	73.58	0.00	96.10	22.52
04/12/00	-	-	4	2.1	0.3	3	-	-	NP	75.18	0.00	96.10	20.92
04/04/01	-	-	1.5	1.5	1.5	2.5	-	-	NP	76.58	0.00	96.10	19.52
04/01/02	-	-	0.5	0.5	0.96	2.6	-	-	NP	-	-	96.10	96.10
08/07/02	0.43	-	<1.0	1.2	3	3.5	-	-	-	-	-	-	-
11/01/02	-	-	-	-	-	-	-	-	NP	78.37	0.00	96.10	17.73
04/01/03	-	-	-	-	-	-	-	-	NP	78.50	0.00	96.10	17.60
11/01/03	-	-	-	-	-	-	-	-	NP	79.00	0.00	96.10	17.10
03/30/04	-	-	-	-	-	-	-	-	NP	79.34	0.00	96.10	16.76
11/22/04	-	-	-	-	-	-	-	-	NP	80.05	0.00	96.10	16.05
03/29/05	-	-	-	-	-	-	-	-	NP	80.32	0.00	96.10	15.78
12/07/05	-	-	-	-	-	-	-	-	NP	80.65	0.00	96.10	15.45
04/11/06	-	-	-	-	-	-	-	-	NP	80.35	0.00	96.10	15.75
12/05/06	-	-	-	-	-	-	-	-	NP	79.83	0.00	96.10	16.27
05/01/07	-	-	-	-	-	-	-	-	NP	79.44	0.00	96.10	16.66
09/25/07	-	-	-	-	-	-	-	-	NP	79.44	0.00	96.10	16.66
03/27/08	-	-	-	-	-	-	-	-	NP	79.83	0.00	96.10	16.27
09/22/08	-	-	-	-	-	-	-	-	NP	80.34	0.00	96.10	15.76
03/26/09	-	-	-	-	-	-	-	-	NP	80.93	0.00	96.10	15.17
10/12/09	-	-	-	-	-	-	-	-	NP	81.63	0.00	96.10	14.47
05/04/10	-	-	-	-	-	-	-	-	NP	82.18	0.00	96.10	13.92
10/06/10	-	-	-	-	-	-	-	-	NP	82.76	0.00	96.10	13.34
03/30/11	-	-	-	-	-	-	-	-	NP	82.98	0.00	96.10	13.12
09/28/11	-	-	-	-	-	-	-	-	NP	82.70	0.00	96.10	13.40
04/03/12	-	-	-	-	-	-	-	-	NP	82.18	0.00	96.10	13.92
09/26/12	-	-	-	-	-	-	-	-	NP	81.73	0.00	96.10	14.37
03/20/13	-	-	-	-	-	-	-	-	NP	81.58	0.00	96.10	14.52
09/23/13	-	-	-	-	-	-	-	-	NP	82.15	0.00	96.10	13.95
04/01/14	-	-	-	-	-	-	-	-	NP	82.58	0.00	96.10	13.52
WELL # AO-8	Area = OFF-SITE N												
03/26/90	-	-	-	-	-	-	-	-	87.85	92.66	4.81	96.04	7.01
02/19/91	-	-	-	-	-	-	-	-	87.63	97.60	9.87	96.04	5.99
03/02/92	-	-	-	-	-	-	-	-	88.83	92.42	3.59	94.93	5.22
08/22/92	-	-	-	-	-	-	-	-	88.33	104.62	16.29	94.93	2.61
02/27/93	-	-	-	-	-	-	-	-	86.97	92.37	5.40	94.93	6.64
04/18/94	-	-	-	-	-	-	-	-	81.67	89.75	8.08	94.93	11.28
04/20/95	-	-	-	-	-	-	-	-	80.12	80.17	0.05	94.93	14.80
04/08/96	-	-	-	-	-	-	-	-	NP	77.50	0.00	94.93	17.43
05/01/97	-	-	-	-	-	-	-	-	NP	74.77	0.00	94.93	20.16
04/22/98	-	-	-	-	-	-	-	-	NP	73.60	0.00	94.93	21.33
04/29/99	-	-	-	-	-	-	-	-	NP	72.74	0.00	94.93	22.19
04/11/00	-	-	-	-	-	-	-	-	NP	74.11	0.00	94.93	20.82
04/03/01	-	-	-	-	-	-	-	-	NP	75.56	0.00	94.93	19.37
04/01/02	-	-	-	-	-	-	-	-	NP	75.82	0.00	94.93	19.11
11/01/02	-	-	-	-	-	-	-	-	NP	79.42	0.00	94.93	15.51
04/01/03	-	-	-	-	-	-	-	-	NP	79.00	0.00	94.93	15.93
03/30/04	-	-	-	-	-	-	-	-	NP	78.95	0.00	94.33	15.38
11/22/04	-	-	-	-	-	-	-	-	NP	80.55	0.00	94.93	14.38
03/29/05	-	-	-	-	-	-	-	-	NP	79.87	0.00	94.93	15.06
12/07/05	-	-	-	-	-	-	-	-	NP	79.89	0.00	94.93	15.04
04/11/06	-	-	-	-	-	-	-	-	NP	79.58	0.00	94.93	15.35
12/05/06	-	-	-	-	-	-	-	-	NP	79.18	0.00	94.93	15.77
05/01/07	-	-	-	-	-	-	-	-	NP	78.70	0.00	94.93	16.23
09/25/07	-	-	-	-	-	-	-	-	NP	79.02	0.00	94.93	15.91
03/27/08	-	-	-	-	-	-	-	-	NP	79.50	0.00	94.93	15.43
09/22/08	-	-	-	-	-	-	-	-	NP	81.26	0.00	94.93	13.67
03/26/09	-	-	-	-	-	-	-	-	NP	81.70	0.00	94.93	13.23
10/12/09	-	-	-	-	-	-	-	-	NP	83.04	0.00	94.93	11.89
05/04/10	-	-	-	-	-	-	-	-	NP	83.70	0.00	94.93	11.23
10/06/10	-	-	-	-	-	-	-	-	NP	86.33	0.00	94.93	8.60
03/30/11	-	-	-	-	-	-	-	-	82.04	97.73	15.69	94.93	9.05
09/28/11	-	-	-	-	-	-	-	-	83.74	84.10	0.36	94.93	11.10
04/03/12	-	-	-	-	-	-	-	-	82.22	82.43	0.21	94.93	12.68
09/26/12	-	-	-	-	-	-	-	-	82.17	82.22	0.05	94.93	12.75

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT (feet)	DEPTH TO GROUNDWATER (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)					
03/20/13	-	-	-	-	-	-	-	-	FILM	81.86	0.00	94.93	13.07
09/23/13	-	-	-	-	-	-	-	-	NP	83.42	0.00	94.93	11.51
04/01/14	-	-	-	-	-	-	-	-	84.15	84.19	0.04	94.93	10.77
WELL # AO-9	Area = OFF-SITE N												
01/10/90	-	-	-	-	-	-	-	-	NP	89.98	0.00	97.34	7.36
02/19/91	-	-	-	-	-	-	-	-	NP	92.33	0.00	97.34	5.01
03/02/92	-	-	-	-	-	-	-	-	NP	92.33	0.00	96.86	4.53
02/27/93	-	-	0.2	0.3	0.6	0.6	-	-	NP	92.25	0.00	96.86	4.61
04/18/94	-	-	-	-	-	-	-	-	NP	83.75	0.00	96.86	13.11
04/21/95	-	-	490	19	200	440	-	-	NP	84.39	0.00	96.86	12.47
04/09/96	-	-	87	32	28	110	-	-	NP	81.33	0.00	96.86	15.53
05/01/97	-	-	0.4	0.3	0.3	2.2	-	-	NP	78.45	0.00	96.86	18.41
04/22/98	-	-	3.9	0.6	2.2	6.2	-	-	NP	77.62	0.00	96.86	19.24
04/29/99	-	-	23	1.1	1.3	17	-	-	NP	76.53	0.00	96.86	20.33
04/12/00	-	-	42	6.3	3	29	-	-	NP	78.19	0.00	96.86	18.67
04/04/01	-	-	1.6	1.6	1.6	2.5	-	-	NP	80.00	0.00	96.86	16.86
04/01/02	-	-	66	6.6	7.5	39	-	-	NP	81.55	0.00	96.86	15.31
08/07/02	3.6	-	56	8	11	-	-	-	-	-	0.00	96.86	96.86
11/01/02	-	-	4.9	8.4	<0.5	25			NP	83.49	0.00	96.86	13.37
04/01/03	-	-	4.9	2.8	<0.5	16	-	-	NP	83.40	0.00	96.86	13.46
11/01/03	-	-	-	-	-	-	-	-	NP	84.90	0.00	96.86	11.96
03/30/04	-	-	-	-	-	-	-	-	NP	85.20	0.00	96.86	11.66
11/22/04	-	-	-	-	-	-	-	-	NP	96.94	0.00	96.86	-0.08
03/29/05	-	-	-	-	-	-	-	-	NP	86.84	0.00	96.86	10.02
12/07/05	-	-	-	-	-	-	-	-	NP	87.68	0.00	96.86	9.18
04/11/06	-	-	-	-	-	-	-	-	NP	86.86	0.00	96.86	10.00
12/05/06	-	-	-	-	-	-	-	-	NP	96.04	0.00	96.86	0.82
05/01/07	-	-	-	-	-	-	-	-	NP	88.87	0.00	96.86	7.99
09/26/07	-	-	-	-	-	-	-	-	NP	85.25	0.00	96.86	11.61
03/27/08	-	-	-	-	-	-	-	-	NP	85.95	0.00	96.86	10.91
09/25/08	78	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	87.11	0.00	96.86	9.75
03/26/09	-	-	-	-	-	-	-	-	NP	87.88	0.00	96.86	8.98
10/12/09	-	-	-	-	-	-	-	-	NP	88.98	0.00	96.86	7.88
05/04/10	-	-	-	-	-	-	-	-	NP	89.42	0.00	96.86	7.44
10/06/10	-	-	-	-	-	-	-	-	NP	90.01	0.00	96.86	6.85
03/30/11	-	-	-	-	-	-	-	-	NP	89.82	0.00	96.86	7.04
09/28/11	-	-	-	-	-	-	-	-	NP	88.93	0.00	96.86	7.93
04/03/12	-	-	-	-	-	-	-	-	NP	87.70	0.00	96.86	9.16
09/26/12	-	-	-	-	-	-	-	-	NP	87.27	0.00	96.86	9.59
03/20/13	-	-	-	-	-	-	-	-	NP	86.98	0.00	96.86	9.88
09/23/13	-	-	-	-	-	-	-	-	NP	87.95	0.00	96.86	8.91
04/01/14	-	-	-	-	-	-	-	-	NP	88.84	0.00	96.86	8.02
WELL # AO-10	Area = OFF-SITE E												
12/20/90	-	-	-	-	-	-	-	-	NP	91.75	0.00	87.55	-4.20
02/19/91	-	-	-	-	-	-	-	-	NP	91.11	0.00	87.55	-3.56
11/20/91	-	-	-	-	-	-	-	-	NP	92.75	0.00	87.54	-5.21
03/02/92	-	-	-	-	-	-	-	-	NP	90.63	0.00	87.54	-3.09
05/28/92	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	90.47	0.00	87.54	-2.93
02/27/93	-	-	-	-	-	-	-	-	NP	89.95	0.00	87.54	-2.41
04/18/94	-	-	-	-	-	-	-	-	NP	84.50	0.00	87.54	3.04
04/24/95	-	-	-	-	-	-	-	-	NP	79.66	0.00	87.54	7.88
04/09/96	-	-	-	-	-	-	-	-	NP	76.98	0.00	87.54	10.56
04/29/97	-	-	-	-	-	-	-	-	NP	74.87	0.00	87.54	12.67
04/23/98	-	-	-	-	-	-	-	-	NP	75.02	0.00	87.54	12.52
04/28/99	-	-	-	-	-	-	-	-	NP	74.62	0.00	87.54	12.92
04/11/00	-	-	-	-	-	-	-	-	NP	77.10	0.00	87.54	10.44
04/03/01	-	-	-	-	-	-	-	-	NP	78.69	0.00	87.54	8.85
04/01/02	-	-	-	-	-	-	-	-	NP	80.73	0.00	87.54	6.81
08/07/02	<0.10	-	1.0	<.50	<.50	<.10	-	-	-	-	-	-	-
11/01/02	0.65	-	<0.5	<1.0	<0.5	-	-	-	NP	84.44	0.00	87.54	3.10
04/01/03	-	-	0.65	<0.5	<0.5	<1.0		-	NP	82.62	0.00	87.54	4.92
11/01/03	<0.10	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	85.25	0.00	87.54	2.29
03/30/04	<0.10	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	85.85	0.00	87.54	1.69
11/22/04	<0.10	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	87.87	0.00	87.54	-0.33
03/29/05	<0.10	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	86.10	0.00	87.54	1.44
12/06/05	<0.05	-	<1.0	<5	<5	<5	<1.0	-	NP	87.50	0.00	87.54	0.04
03/29/06	<0.006	-	<0.3	<0.1	<0.2	<0.3	<0.0	-	NP	84.96	0.00	87.54	2.58
12/05/06	<0.0056	-	<0.32	1.3 J	<0.24	<0.3	<0.63	-	NP	84.64	0.00	87.54	2.90
04/30/07	<0.0056	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	-	NP	82.27	0.00	87.54	5.27
09/26/07	<0.0056	0.19	<0.18	<0.24	<0.21	<0.45	<0.19	<10	NP	84.73	0.00	87.54	2.81
04/22/08	<0.0066	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<10	NP	85.10	0.00	87.54	2.44
09/24/08	0.059	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	87.84	0.00	87.54	-0.30
03/31/09	<0.0066	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	87.86	0.00	87.54	-0.32
09/30/09	<0.0066	<0.032	1.4	<0.24	<0.21	<0.45	<0.19	<5.2	NP	90.43	0.00	87.54	-2.89
05/05/10	<0.0066	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	89.15	0.00	87.54	-1.61
10/07/10	<0.0066	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	91.13	0.00	87.54	-3.59
03/31/11	<0.0066	5.0	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	88.09	0.00	87.54	-0.55
09/29/11	<0.0066	<0.04	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	87.08	0.00	87.54	0.46
04/04/12	<0.0066	<0.04	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	84.35	0.00	87.54	3.19
09/27/12	<0.0066	<0.04	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	85.35	0.00	87.54	2.19

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
03/21/13	<0.0066	0.11	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	84.11	0.00	87.54	3.43
09/26/13	<0.0066	<0.04	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	87.42	0.00	87.54	0.12
04/03/14	<0.0066	<0.04	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	87.98	0.00	87.54	-0.44
WELL # AO-11	Area = OFF-SITE E												
12/20/90	-	-	-	-	-	-	-	-	NP	91.48	0.00	86.09	-5.39
02/19/91	-	-	-	-	-	-	-	-	NP	91.00	0.00	86.09	-4.91
11/20/91	-	-	-	-	-	-	-	-	NP	92.31	0.00	86.09	-6.22
03/02/92	-	-	-	-	-	-	-	-	NP	90.67	0.00	86.09	-4.58
05/28/92	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	90.29	0.00	86.09	-4.20
02/27/93	-	-	-	-	-	-	-	-	NP	90.34	0.00	86.09	-4.25
04/18/94	-	-	-	-	-	-	-	-	NP	84.96	0.00	86.09	1.13
05/02/95	-	-	-	-	-	-	-	-	NP	76.90	0.00	86.09	9.19
04/09/96	-	-	-	-	-	-	-	-	NP	76.94	0.00	86.09	9.15
04/29/97	-	-	-	-	-	-	-	-	NP	74.79	0.00	86.09	11.30
04/23/98	-	-	-	-	-	-	-	-	NP	75.00	0.00	86.09	11.09
04/28/99	-	-	-	-	-	-	-	-	74.55	75.20	0.65****	86.09	10.89
04/13/00	-	-	-	-	-	-	-	-	76.81	77.25	0.64****	86.09	8.84
04/03/01	-	-	-	-	-	-	-	-	NP	78.44	0.00	86.09	7.65
04/01/02	-	-	-	-	-	-	-	-	NP	80.21	0.00	86.08	5.87
08/07/02	<0.10	-	3.5	0.84	<0.5	<1.0	-	-	-	-	-	-	-
11/01/02	-	-	1.1	<0.5	<0.5	<1.0	-	-	NP	83.64	0.00	86.08	2.44
04/01/03	-	-	1.1	<0.5	<0.5	<1.0	-	-	NP	82.00	0.00	86.08	4.08
11/01/03	<0.1	-	<1.0	<1.0	<1.0	<1.0	2.0	-	NP	84.49	0.00	86.08	1.59
03/30/04	<0.1	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	84.10	0.00	86.08	1.98
11/22/04	<0.1	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	86.88	0.00	86.08	-0.80
03/29/05	<0.1	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	85.14	0.00	86.08	0.94
12/06/05	<0.05	-	<1.0	<5.0	<5.0	<5.0	1.0	-	NP	86.80	0.00	86.08	-0.72
03/29/06	<0.006	-	<0.3	<0.1	<0.2	<0.3	<0.6	-	NP	84.19	0.00	86.08	1.89
12/05/06	<0.0055	-	<0.32	1.1 J	<0.24	<0.3	1.3	-	NP	83.60	0.00	86.08	2.48
04/30/07	<0.0056	<0.032	2.2	<0.24	<0.21	<0.46	1.1	-	NP	81.38	0.00	86.08	4.72
09/26/07	0.386	<0.032	8.2	44	14	65	<0.19	<10	NP	83.50	0.00	86.08	2.58
04/22/08	<0.0066	<0.032	<0.18	<0.24	<0.21	<0.45	1.3	<10	NP	84.00	0.00	86.08	2.08
09/24/08	0.052	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	86.57	0.00	86.08	-0.49
03/31/09	<0.0066	<0.032	1.0	<0.24	<0.21	<0.45	<0.19	<5.2	NP	86.68	0.00	86.08	-0.60
09/30/09	<0.0066	<0.032	2.2	<0.24	<0.21	<0.46	1.2	<5.2	NP	89.00	0.00	86.08	-2.92
05/05/10	<0.0066	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	87.96	0.00	86.08	-1.88
10/07/10	<0.0066	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	89.72	0.00	86.08	-3.64
03/31/11	<0.0066	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	87.21	0.00	86.08	-1.13
09/29/11	<0.0066	<0.04	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	85.83	0.00	86.08	0.25
04/04/12	<0.0066	<0.04	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	83.09	0.00	86.08	2.99
09/27/12	<0.0066	0.27	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	83.67	0.00	86.08	2.41
03/21/13	<0.0066	0.15	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	82.41	0.00	86.08	3.67
09/26/13	<0.0066	0.12	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	85.50	0.00	86.08	0.58
04/03/14	<0.0066	<0.04	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	86.11	0.00	86.08	-0.03
WELL # AO-12	Area = OFF-SITE S												
08/16/91	-	-	-	-	-	-	-	-	NP	64.50	0.00	81.11	16.61
11/20/91	-	-	-	-	-	-	-	-	NP	64.84	0.00	81.11	16.27
03/02/92	-	-	-	-	-	-	-	-	NP	64.63	0.00	81.11	16.48
05/28/92	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	64.27	0.00	81.11	16.84
02/27/93	-	-	-	-	-	-	-	-	NP	64.45	0.00	81.11	16.66
04/18/94	-	-	-	-	-	-	-	-	NP	61.17	0.00	81.11	19.94
04/20/95	-	-	-	-	-	-	-	-	NP	58.01	0.00	81.11	23.10
04/09/96	-	-	-	-	-	-	-	-	NP	55.66	0.00	81.11	25.45
04/28/97	-	-	-	-	-	-	-	-	NP	53.85	0.00	81.11	27.26
04/22/98	-	-	-	-	-	-	-	-	NP	52.85	0.00	81.11	28.26
04/27/99	-	-	-	-	-	-	-	-	NP	51.24	0.00	81.11	29.87
04/12/00	-	-	-	-	-	-	-	-	NP	52.87	0.00	81.11	28.44
04/04/01	-	-	-	-	-	-	-	-	NP	53.92	0.00	81.11	27.19
04/01/02	-	-	-	-	-	-	-	-	NP	54.84	0.00	81.11	26.27
08/07/02	<.10	-	<0.5	<0.5	<0.5	1.0	-	-	-	-	-	-	-
11/01/02	-	-	-	-	-	-	-	-	NP	56.20	0.00	81.11	24.91
04/01/03	-	-	-	-	-	-	-	-	NP	55.64	0.00	81.11	25.47
11/01/03	-	-	-	-	-	-	-	-	NP	56.54	0.00	81.11	24.57
03/30/04	-	-	-	-	-	-	-	-	NP	56.48	0.00	81.11	24.63
11/22/04	-	-	-	-	-	-	-	-	NP	58.13	0.00	81.11	22.98
03/29/05	-	-	-	-	-	-	-	-	NP	57.80	0.00	81.11	23.31
12/07/05	-	-	-	-	-	-	-	-	NP	57.50	0.00	81.11	23.61
04/11/06	-	-	-	-	-	-	-	-	NP	56.60	0.00	81.11	24.51
12/05/06	-	-	-	-	-	-	-	-	NP	55.96	0.00	81.11	25.15
05/01/07	-	-	-	-	-	-	-	-	NP	55.15	0.00	81.11	25.96
09/27/07	-	-	-	-	-	-	-	-	NP	56.75	0.00	81.11	24.36
03/27/08	-	-	-	-	-	-	-	-	NP	56.58	0.00	81.11	24.53
09/22/08	-	-	-	-	-	-	-	-	NP	57.45	0.00	81.11	23.66
03/26/09	-	-	-	-	-	-	-	-	NP	58.12	0.00	81.11	22.99
10/12/09	-	-	-	-	-	-	-	-	NP	59.22	0.00	81.11	21.89
05/04/10	-	-	-	-	-	-	-	-	NP	59.83	0.00	81.11	21.28
10/06/10	-	-	-	-	-	-	-	-	NP	60.30	0.00	81.11	20.81
03/30/11	-	-	-	-	-	-	-	-	NP	59.92	0.00	81.11	21.19
09/28/11	-	-	-	-	-	-	-	-	NP	59.20	0.00	81.11	21.91
04/03/12	-	-	-	-	-	-	-	-	NP	58.30	0.00	81.11	22.81
09/26/12	-	-	-	-	-	-	-	-	NP	58.00	0.00	81.11	23.11

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
03/20/13	-	-	-	-	-	-	-	-	NP	57.90	0.00	81.11	23.21
09/23/13	-	-	-	-	-	-	-	-	NP	58.45	0.00	81.11	22.66
04/01/14	-	-	-	-	-	-	-	-	NP	56.15	0.00	81.11	22.96
WELL # AO-13													
08/18/91	-	-	-	-	-	-	-	-	NP	103.93	0.00	102.04	-1.89
03/02/92	-	-	-	-	-	-	-	-	DRY	-	-	102.04	--
05/28/92	-	-	-	-	-	-	-	-	NP	101.47	0.00	102.04	0.57
08/22/92	-	-	-	-	-	-	-	-	NP	104.08	0.00	102.04	-2.04
02/27/93	-	-	-	-	-	-	-	-	NP	99.97	0.00	102.04	2.07
11/05/94	-	-	-	-	-	-	-	-	NP	94.15	0.00	102.04	7.89
04/20/95	-	-	-	-	-	-	-	-	NP	88.72	0.00	102.04	13.32
04/09/96	-	-	-	-	-	-	-	-	NP	86.50	0.00	102.04	15.54
04/29/97	-	-	-	-	-	-	-	-	NP	84.69	0.00	102.04	17.35
04/23/98	-	-	-	-	-	-	-	-	NP	84.97	0.00	102.04	17.07
04/26/99	-	-	-	-	-	-	-	-	NP	84.61	0.00	102.04	17.43
04/11/00	-	-	-	-	-	-	-	-	NP	88.59	0.00	102.04	13.45
04/02/01	-	-	-	-	-	-	-	-	NP	89.90	0.00	102.04	12.14
04/01/02	-	-	-	-	-	-	-	-	92.36	92.39	0.01	102.04	9.68
11/01/02	-	-	-	-	-	-	-	-	NP	97.76	0.00	102.04	4.28
04/01/03	-	-	-	-	-	-	-	-	NP	94.40	0.00	102.04	7.64
11/01/03	-	-	-	-	-	-	-	-	NP	98.03	0.00	102.04	4.01
03/30/04	-	-	-	-	-	-	-	-	NP	96.60	0.00	102.04	5.44
11/22/04	-	-	-	-	-	-	-	-	NP	100.66	0.00	102.04	1.38
03/29/05	-	-	-	-	-	-	-	-	NP	97.98	0.00	102.04	4.06
12/06/05	-	-	-	-	-	-	-	-	NP	99.91	0.00	102.04	2.13
	WELL DESTROYED												
WELL # AO-14	Area = OFF-SITE S												
08/18/91	-	-	-	-	-	-	-	-	67.41	82.41	15.00	85.00	13.92
11/20/91	-	-	-	-	-	-	-	-	67.75	82.39	14.64	85.00	13.66
03/02/92	-	-	-	-	-	-	-	-	67.75	81.25	13.50	85.00	13.94
05/28/92	-	-	38000	48000	1200	17000	-	-	67.58	80.29	12.71	85.00	14.31
02/27/93	-	-	-	-	-	-	-	-	67.69	78.73	11.04	85.00	14.61
04/18/94	-	-	-	-	-	-	-	-	66.00	71.25	5.25	85.00	17.71
04/20/95	-	-	-	-	-	-	-	-	63.50	67.24	3.74	85.00	20.58
04/08/96	-	-	-	-	-	-	-	-	61.15	64.65	3.50	85.00	22.69
04/29/97	-	-	-	-	-	-	-	-	59.04	62.92	3.88	85.00	25.01
04/21/98	-	-	-	-	-	-	-	-	57.85	61.29	3.44	85.00	26.31
04/26/99	-	-	-	-	-	-	-	-	57.09	61.14	4.05	85.00	28.92
11/02/99	-	-	-	-	-	-	-	-	56.78	60.96	4.18	85.00	27.20
04/11/00	-	-	-	-	-	-	-	-	56.82	61.08	4.26	85.00	27.14
04/04/01	-	-	-	-	-	-	-	-	58.09	61.80	3.71	85.00	26.00
04/01/02	-	-	-	-	-	-	-	-	59.23	62.60	3.37	85.00	24.94
11/01/02	-	-	-	-	-	-	-	-	60.30	63.23	2.93	85.00	23.98
04/01/03	-	-	-	-	-	-	-	-	60.10	64.00	3.90	85.00	23.94
11/01/03	-	-	-	-	-	-	-	-	61.14	64.97	3.83	85.00	22.92
03/30/04	-	-	-	-	-	-	-	-	61.29	65.00	3.71	85.00	22.80
11/22/04	-	-	-	-	-	-	-	-	62.87	66.22	3.35	85.00	21.31
03/29/05	-	-	-	-	-	-	-	-	62.67	66.50	3.83	85.00	21.39
12/07/05	-	-	-	-	-	-	-	-	62.67	65.40	2.73	85.00	21.66
04/11/06	-	-	-	-	-	-	-	-	62.04	66.80	4.76	85.00	21.79
12/06/06	-	-	-	-	-	-	-	-	61.54	66.01	4.47	85.00	22.36
05/01/07	-	-	-	-	-	-	-	-	60.94	65.20	4.26	85.00	23.02
09/27/07	-	-	-	-	-	-	-	-	61.24	65.57	4.33	85.00	22.70
03/27/08	-	-	-	-	-	-	-	-	61.64	66.22	4.58	85.00	22.24
09/22/08	-	-	-	-	-	-	-	-	62.34	64.80	2.46	85.00	22.06
03/26/09	-	-	-	-	-	-	-	-	62.70	65.02	2.32	85.00	21.73
10/12/09	-	-	-	-	-	-	-	-	63.68	75.40	11.72	85.00	18.45
05/04/10	-	-	-	-	-	-	-	-	64.30	75.40	11.10	85.00	17.98
10/08/10	-	-	-	-	-	-	-	-	64.88	74.80	9.92	85.00	17.69
03/30/11	-	-	-	-	-	-	-	-	64.70	74.40	9.70	85.00	17.92
09/28/11	-	-	-	-	-	-	-	-	64.48	73.70	9.22	85.00	18.26
04/03/12	-	-	-	-	-	-	-	-	63.70	71.20	7.50	85.00	19.46
09/26/12	-	-	-	-	-	-	-	-	63.55	71.90	8.35	85.00	19.40
03/20/13	-	-	-	-	-	-	-	-	63.55	71.35	7.80	85.00	19.54
09/23/13	-	-	-	-	-	-	-	-	64.06	74.55	10.49	85.00	18.37
04/01/14	-	-	-	-	-	-	-	-	64.32	74.48	10.16	85.00	18.19
WELL # AO-15													
08/18/91	-	-	-	-	-	-	-	-	NP	66.69	0.00	86.78	20.09
03/02/92	-	-	-	-	-	-	-	-	NP	67.58	0.00	86.78	19.20
05/28/92	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	66.20	0.00	86.78	20.58
02/27/93	-	-	-	-	-	-	-	-	NP	66.23	0.00	86.78	20.55
04/18/94	-	-	-	-	-	-	-	-	NP	62.29	0.00	86.78	24.49
05/02/95	-	-	-	-	-	-	-	-	NP	58.95	0.00	86.78	27.83
04/08/96	-	-	-	-	-	-	-	-	NP	56.77	0.00	86.78	30.01
04/28/97	-	-	-	-	-	-	-	-	NP	54.82	0.00	86.78	31.96
04/22/98	-	-	-	-	-	-	-	-	NP	53.77	0.00	86.78	33.01
04/26/99	-	-	-	-	-	-	-	-	NP	51.92	0.00	86.79	34.87
04/12/00	-	-	-	-	-	-	-	-	NP	53.87	0.00	86.79	32.92
04/04/01	-	-	-	-	-	-	-	-	NP	55.15	0.00	86.79	31.64
04/01/02	-	-	-	-	-	-	-	-	NP	30.71	0.00	86.79	56.08
08/07/02	<.10	-	<0.5	<0.5	<0.5	1.0	-	-	-	-	-	-	-
11/01/02	-	-	-	-	-	-	-	-	NP	57.54	0.00	86.79	29.25

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
04/01/03	-	-	-	-	-	-	-	-	NP	56.94	0.00	86.79	29.85
11/01/03	-	-	-	-	-	-	-	-	NP	58.08	0.00	86.79	28.71
03/30/04	-	-	-	-	-	-	-	-	NP	57.92	0.00	86.79	28.87
11/22/04	-	-	-	-	-	-	-	-	NP	59.64	0.00	86.79	27.15
03/29/05	-	-	-	-	-	-	-	-	NP	59.55	0.00	86.79	27.24
12/06/05	-	-	-	-	-	-	-	-	NP	59.36	0.00	86.79	27.43
WELL DESTROYED													
WELL # AO-16 Area = OFF-SITE S													
05/28/92	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	63.97	0.00	81.01	17.04
11/20/92	-	-	-	-	-	-	-	-	NP	64.63	0.00	81.01	16.38
02/27/93	-	-	-	-	-	-	-	-	NP	64.07	0.00	81.01	16.94
04/18/94	-	-	-	-	-	-	-	-	NP	59.33	0.00	81.01	21.68
04/22/95	-	-	-	-	-	-	-	-	NP	57.59	0.00	81.01	23.42
04/08/96	-	-	-	-	-	-	-	-	NP	55.25	0.00	81.01	25.76
04/29/97	-	-	-	-	-	-	-	-	NP	53.35	0.00	81.01	27.66
04/22/98	-	-	-	-	-	-	-	-	NP	52.25	0.00	81.01	28.76
04/29/99	-	-	-	-	-	-	-	-	NP	50.40	0.00	81.01	30.61
04/12/00	-	-	-	-	-	-	-	-	NP	52.09	0.00	81.01	28.92
04/04/01	-	-	-	-	-	-	-	-	NP	53.26	0.00	81.01	27.75
04/01/02	-	-	-	-	-	-	-	-	NP	54.27	0.00	81.01	26.74
11/01/02	-	-	-	-	-	-	-	-	NP	55.32	0.00	80.01	24.69
04/01/03	-	-	-	-	-	-	-	-	NP	55.12	0.00	81.01	25.89
11/01/03	-	-	-	-	-	-	-	-	NP	55.99	0.00	81.01	25.02
03/30/04	-	-	-	-	-	-	-	-	NP	56.02	0.00	81.01	24.99
11/22/04	-	-	-	-	-	-	-	-	NP	57.60	0.00	81.01	23.41
03/29/05	-	-	-	-	-	-	-	-	NP	57.41	0.00	81.01	23.60
12/06/05	-	-	-	-	-	-	-	-	NP	57.25	0.00	81.01	23.76
04/11/06	-	-	-	-	-	-	-	-	NP	56.36	0.00	81.01	24.65
12/05/06	-	-	-	-	-	-	-	-	NP	55.67	0.00	81.01	25.34
05/01/07	-	-	-	-	-	-	-	-	NP	54.94	0.00	81.01	26.07
09/25/07	-	-	-	-	-	-	-	-	NP	55.40	0.00	81.01	25.61
03/27/08	-	-	-	-	-	-	-	-	NP	56.18	0.00	81.01	24.83
09/22/08	-	-	-	-	-	-	-	-	NP	56.98	0.00	81.01	24.03
03/26/09	-	-	-	-	-	-	-	-	NP	57.67	0.00	81.01	23.34
10/12/09	-	-	-	-	-	-	-	-	NP	58.71	0.00	81.01	22.30
03/04/10	-	-	-	-	-	-	-	-	NP	59.52	0.00	81.01	21.49
10/06/10	-	-	-	-	-	-	-	-	NP	59.85	0.00	81.01	21.16
03/30/11	-	-	-	-	-	-	-	-	NP	59.64	0.00	81.01	21.37
09/28/11	-	-	-	-	-	-	-	-	NP	58.97	0.00	81.01	22.04
04/03/12	-	-	-	-	-	-	-	-	NP	58.15	0.00	81.01	22.86
09/26/12	-	-	-	-	-	-	-	-	NP	57.84	0.00	81.01	23.17
03/20/13	-	-	-	-	-	-	-	-	NP	57.74	0.00	81.01	23.27
09/23/13	-	-	-	-	-	-	-	-	NP	58.43	0.00	81.01	22.58
04/01/14	-	-	-	-	-	-	-	-	NP	59.20	0.00	81.01	21.81
WELL # AO-17													
05/28/92	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	91.75	0.00	87.71	-
08/22/92	-	-	-	-	-	-	-	-	NP	94.46	0.00	87.71	-
02/27/93	-	-	0.6	0.3	0.5	0.6	-	-	NP	91.33	0.00	87.71	-
04/18/94	-	-	-	-	-	-	-	-	NP	83.58	0.00	87.71	4.13
04/21/95	-	-	1.2	2.9	0.6	1.8	-	-	NP	79.08	0.00	87.71	8.63
04/09/96	-	-	0.7	0.4	0.6	1.3	-	-	NP	76.31	0.00	87.71	11.40
04/29/97	-	-	520	9.2	1.5	49	-	-	NP	74.71	0.00	87.71	13.00
04/22/98	-	-	5500	3.1	40	3.7	-	-	NP	75.00	0.00	87.71	12.71
04/29/99	-	-	10000	50	190	300	-	-	NP	74.95	0.00	87.71	12.76
04/12/00	-	-	6910	86	466	828	-	-	NP	77.75	0.00	87.71	9.96
04/04/01	-	-	1800	12	32	52	-	-	NP	79.03	0.00	87.71	8.68
04/01/02	-	-	830	28	9.4	190	-	-	NP	81.25	0.00	87.71	6.46
06/07/02	3.4		200	35	23	55	-	-	-	-	-	-	-
11/01/02	-	-	-	-	-	-	-	-	NP	85.98	0.00	87.71	1.73
04/01/03	-	-	-	-	-	-	-	-	NP	83.10	0.00	87.71	4.61
11/01/03	-	-	-	-	-	-	-	-	NP	86.48	0.00	87.71	1.23
03/30/04	-	-	-	-	-	-	-	-	NP	85.31	0.00	87.71	2.40
11/22/04	-	-	-	-	-	-	-	-	NP	89.01	0.00	87.71	
03/29/05	-	-	-	-	-	-	-	-	NP	86.25	0.00	87.71	1.46
12/07/05	-	-	-	-	-	-	-	-	NP	88.25	0.00	87.71	
04/11/06	-	-	-	-	-	-	-	-	NP	84.25	0.00	87.71	3.46
12/05/06	-	-	-	-	-	-	-	-	NP	85.48	0.00	87.71	2.23
05/01/07	-	-	-	-	-	-	-	-	NP	82.32	0.00	87.71	5.39
09/25/07	-	-	-	-	-	-	-	-	NP	86.30	0.00	87.71	1.41
03/27/08	-	-	-	-	-	-	-	-	NP	85.77	0.00	87.71	1.94
09/22/08	-	-	-	-	-	-	-	-	NP	89.63	0.00	87.71	-1.92
03/26/09	-	-	-	-	-	-	-	-	NP	88.35	0.00	87.71	-0.64
05/28/09	WELL DESTROYED												
WELL # AO-18 Area = OFF-SITE S													
05/28/92	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	72.27	0.00	81.39	9.12
02/27/93	-	-	-	-	-	-	-	-	NP	72.43	0.00	81.39	8.96
11/01/93	-	-	-	-	-	-	-	-	NP	83.58	0.00	81.39	
04/18/94	-	-	-	-	-	-	-	-	NP	79.92	0.00	81.39	1.47
04/22/95	-	-	2000	1000	190	870	-	-	NP	67.02	0.00	81.39	14.37
04/08/96	-	-	7200	4200	530	2400	-	-	NP	64.63	0.00	81.39	16.76
05/01/97	-	-	10000	6900	560	3800	-	-	NP	62.17	0.00	81.39	19.22
04/22/98	-	-	10000	1400	1400	5400	-	-	NP	61.67	0.00	81.39	19.72
04/29/99	-	-	5000	4700	570	1600	-	-	NP	60.72	0.00	81.39	20.67

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
04/12/00	-	-	7310	10200	991	3030	-	-	NP	61.87	0.00	81.39	19.52
04/04/01	-	-	30	30	30	60	-	-	NP	63.02	0.00	81.39	18.37
04/01/02	-	-	14000	1100	14000	4600	-	-	NP	64.22	0.00	81.39	17.17
08/07/02	66	-	12000	10000	1200	4800	-	-	-	-	-	-	-
11/01/02	-	-	7100	7500	1300	4400	-	-	NP	65.60	0.00	81.39	15.79
04/01/03	-	-	7100	7500	1300	4400	-	-	NP	65.47	0.00	81.39	15.92
11/01/03	20	-	2600	2200	1500	1590	<100	-	NP	66.38	0.00	81.39	15.01
03/30/04	1.3	-	60	15	200	78	<5	-	NP	66.44	0.00	81.39	14.95
11/22/04	0.61	-	16	1.4	200	<1.0	<1.0	-	NP	67.55	0.00	81.39	13.84
03/29/05	<0.1	-	3.7	<1.0	2.6	<1.0	<1.0	-	NP	67.37	0.00	81.39	14.02
12/07/05	-	-	-	-	-	-	-	-	NP	67.71	0.00	81.39	13.68
03/29/06	0.476	-	162	2.7J	1.4J	3.8J	<0.6	-	NP	66.93	0.00	81.39	14.46
12/05/06	0.131	-	<0.32	<0.10	<0.24	1.6 J	<0.63	-	NP	66.21	0.00	81.39	15.18
04/22/08	-	-	-	-	-	-	-	-	NP	66.45	0.00	81.39	14.94
04/30/07	0.677	0.17	115	7.6	12	22	<0.19	-	NP	65.40	0.00	81.39	15.99
09/26/07	0.925	<0.032	144	19	15	37	<0.19	33	NP	63.85	0.00	81.39	17.54
04/22/08	0.609	<0.032	68	20	12	42	<0.19	<10	NP	66.45	0.00	81.39	14.94
09/25/08	0.257	<0.032	3.1	<0.24	<0.21	<0.45	<0.19	43	NP	67.25	0.00	81.39	14.14
03/27/09	-	-	-	-	-	-	-	-	NP	67.92	0.00	81.39	13.47
10/12/09	-	-	-	-	-	-	-	-	NP	68.62	0.00	81.39	12.57
06/04/10	-	-	-	-	-	-	-	-	NP	69.15	0.00	81.39	12.24
10/06/10	-	-	-	-	-	-	-	-	NP	69.62	0.00	81.39	11.77
03/30/11	-	-	-	-	-	-	-	-	NP	69.22	0.00	81.39	12.17
09/28/11	-	-	-	-	-	-	-	-	NP	69.10	0.00	81.39	12.29
04/03/12	-	-	-	-	-	-	-	-	NP	67.50	0.00	81.39	13.89
09/26/12	-	-	-	-	-	-	-	-	NP	67.05	0.00	81.39	14.34
03/20/13	-	-	-	-	-	-	-	-	NP	66.83	0.00	81.39	14.56
09/23/13	-	-	-	-	-	-	-	-	NP	67.72	0.00	81.39	13.67
04/01/14	-	-	-	-	-	-	-	-	NP	68.22	0.00	81.39	13.17
WELL # AO-19													
05/28/92	-	-	<1.0	<1.0	<1.0	<1.0			NP	69.44	0.00	86.49	17.05
11/20/92	-	-	-	-	-	-	-	-	NP	70.02	0.00	86.49	16.47
02/27/93	-	-	-	-	-	-	-	-	NP	68.17	0.00	86.49	18.32
04/18/94	-	-	-	-	-	-	-	-	NP	59.33	0.00	86.49	27.16
04/24/95	-	-	-	-	-	-	-	-	NP	63.16	0.00	86.49	23.33
04/08/96	-	-	-	-	-	-	-	-	NP	60.48	0.00	86.49	26.01
04/28/97	-	-	-	-	-	-	-	-	NP	58.52	0.00	86.49	27.97
04/22/98	-	-	-	-	-	-	-	-	NP	57.32	0.00	86.49	29.17
04/28/99	-	-	-	-	-	-	-	-	NP	55.44	0.00	86.49	31.05
04/12/00	-	-	-	-	-	-	-	-	NP	57.09	0.00	86.49	29.40
04/02/01	-	-	-	-	-	-	-	-	NP	58.24	0.00	86.49	28.25
04/01/02	-	-	-	-	-	-	-	-	NP	59.42	0.00	86.49	27.07
11/01/02	-	-	<0.5	<0.5	<0.5	<1.0	-	-	NP	60.52	0.00	86.49	25.97
04/01/03	-	-	0.93	<0.5	<0.5	<1.0	-	-	NP	60.31	0.00	86.49	26.18
11/01/03	<0.01	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	61.28	0.00	86.49	25.21
03/30/04	<0.01	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	61.45	0.00	86.49	25.04
11/22/04	-	-	-	-	-	-	-	-	NP	63.08	0.00	86.49	23.41
03/31/05	-	-	-	-	-	-	-	-	NP	62.87	0.00	86.49	23.62
12/07/05	-	-	-	-	-	-	-	-	NP	62.76	0.00	86.49	23.73
05/01/07	-	-	-	-	-	-	-	-	NO ACCESS	-	-	86.49	-
09/27/07	-	-	-	-	-	-	-	-	-	-	-	-	-
03/27/08	NO ACCESS	-	-	-	-	-	-	-	NO ACCESS	-	-	86.49	-
09/22/08	NO ACCESS	-	-	-	-	-	-	-	NO ACCESS	-	-	86.49	-
03/26/09													
08/04/10													
WELL # AO-20 Area = OFF-SITE S													
05/28/92	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	69.69	0.00	86.24	16.55
11/20/92	-	-	-	-	-	-	-	-	NP	70.21	0.00	86.24	16.03
02/27/93	-	-	-	-	-	-	-	-	NP	69.80	0.00	86.24	16.44
04/18/94	-	-	-	-	-	-	-	-	NP	67.04	0.00	86.24	19.20
04/24/95	-	-	-	-	-	-	-	-	NP	63.50	0.00	86.24	22.74
04/15/96	-	-	-	-	-	-	-	-	NP	61.08	0.00	86.24	25.16
04/29/97	-	-	-	-	-	-	-	-	NP	59.13	0.00	86.24	27.11
04/22/98	-	-	-	-	-	-	-	-	NP	57.41	0.00	86.24	28.83
04/28/99	-	-	-	-	-	-	-	-	NP	55.87	0.00	86.24	30.37
04/11/00	-	-	-	-	-	-	-	-	NP	56.91	0.00	86.24	29.33
11/08/00	-	-	-	-	-	-	-	-	NP	58.16	0.00	86.24	28.08
11/13/01	-	-	-	-	-	-	-	-	NP	59.08	0.00	86.24	27.16
04/01/02	-	-	-	-	-	-	-	-	NP	59.32	0.00	86.24	26.92
08/07/02	<0.10		3.2	2.6	11	14			-	-	-	-	-
11/01/02	-	-	-	-	-	-	-	-	NP	60.37	0.00	86.24	25.87
04/01/03	-	-	-	-	-	-	-	-	NP	61.62	0.00	86.24	24.62
01/00/00	-	-	-	-	-	-	-	-	NP	61.24	0.00	86.24	25.00
03/30/04	-	-	-	-	-	-	-	-	NP	61.40	0.00	86.24	24.84
11/22/04	-	-	-	-	-	-	-	-	NP	62.80	0.00	86.24	23.44
03/29/05	-	-	-	-	-	-	-	-	NP	62.83	0.00	86.24	23.41
12/07/05	-	-	-	-	-	-	-	-	NP	62.81	0.00	86.24	23.43
03/29/06	<0.006	-	<0.3	<0.1	<0.2	<0.3	<0.6	-	NP	62.10	0.00	86.24	24.14
12/05/06	<0.0056	-	<0.32	<0.10	<0.24	<0.3	<0.63	-	NP	61.55	0.00	86.24	24.69
04/30/07	<0.0056	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	-	NP	60.97	0.00	86.24	25.27
09/26/07	0.364	<0.032	6.3	39	9.6	37	<0.19	<10	NP	61.12	0.00	86.24	25.12
03/27/08	-	-	-	-	-	-	-	-	NP	61.82	0.00	86.24	24.42
04/22/08	<0.0066	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<10	NP	61.84	0.00	86.24	24.40
09/24/08	<0.0066	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	62.50	0.00	86.24	23.74
03/31/09	<0.0066	0.13	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	63.40	0.00	86.24	22.84

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT (feet)	DEPTH TO GROUNDWATER (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)					
10/12/09	-	-	-	-	-	-	-	-	NP	64.08	0.00	86.24	22.16
05/04/10	-	-	-	-	-	-	-	-	NP	65.10	0.00	86.24	21.14
10/06/10	-	-	-	-	-	-	-	-	NP	65.20	0.00	86.24	21.04
03/30/11	-	-	-	-	-	-	-	-	NP	65.60	0.00	86.24	20.64
09/28/11	-	-	-	-	-	-	-	-	NP	64.90	0.00	86.24	21.34
04/03/12	-	-	-	-	-	-	-	-	NP	64.30	0.00	86.24	21.94
09/26/12	-	-	-	-	-	-	-	-	NP	63.72	0.00	86.24	22.52
03/20/13	-	-	-	-	-	-	-	-	NP	63.70	0.00	86.24	22.54
09/23/13	-	-	-	-	-	-	-	-	NP	64.42	0.00	86.24	21.82
04/01/14	-	-	-	-	-	-	-	-	NO ACCESS	-	-	86.24	-
WELL # AO-21 Area = North of Imperial													
05/28/92	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	101.60	0.00	101.92	0.32
08/22/92	-	-	-	-	-	-	-	-	NP	104.60	0.00	101.92	
02/27/93	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	100.09	0.00	101.92	1.83
11/01/93	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	98.98	0.00	101.92	2.94
02/05/94	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	95.20	0.00	101.92	6.72
04/18/94	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	92.90	0.00	101.92	9.02
11/05/94	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	94.24	0.00	101.92	7.66
04/20/95	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	89.69	0.00	101.92	12.23
11/06/95	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	91.58	0.00	101.92	10.34
04/11/96	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	86.45	0.00	101.92	15.47
11/12/96	-	-	<1.0	<1.0	<1.0	<1.0	<0.5	-	NP	88.81	0.00	101.92	13.11
04/29/97	-	-	1.3	5.9	1.2	14	-	-	NP	84.76	0.00	101.92	17.16
11/04/97	-	-	55	24	2.3	33	<0.5	-	NP	88.10	0.00	101.92	13.82
04/21/98	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	85.22	0.00	101.92	16.70
11/05/98	-	-	<1.0	<1.0	<1.0	<1.0	<0.5	-	NP	87.90	0.00	101.92	14.02
04/28/99	-	-	<1.0	<1.0	<1.0	<1.0	<0.5	-	NP	85.25	0.00	101.92	16.67
11/01/99	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	90.02	0.00	101.92	11.90
04/11/00	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	88.84	0.00	101.92	13.08
11/06/00	-	-	<1.0	<1.0	<1.0	<1.0	<0.5	-	NP	91.60	0.00	101.92	10.32
04/04/01	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	90.21	0.00	101.92	11.71
11/12/01	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	94.19	0.00	101.92	7.73
04/01/02	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	92.62	0.00	101.92	9.30
11/01/02	1.9	-	1.6	<1.0	<1.0	<1.0	3.1	-	NP	97.88	0.00	101.92	4.04
04/01/03	1.9	-	1.6	<1.0	<1.0	<1.0	3.1	-	NP	94.44	0.00	101.92	7.48
11/01/03	<0.10	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	98.16	0.00	101.92	3.76
03/30/04	<0.10	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	96.86	0.00	101.92	5.06
11/22/04	<0.10	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	101.05	0.00	101.92	0.87
03/29/05	<0.10	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	98.13	0.00	101.92	3.79
12/06/05	<0.05	-	<1.0	<5.0	<5.0	<5.0	<1.0	-	NP	100.12	0.00	101.92	1.80
03/29/06	<0.006	-	<0.3	<0.1	<0.2	<0.3	<0.6	-	NP	96.36	0.00	101.92	5.56
12/06/06	<0.0056	-	<0.32	1.7 J	<0.24	<0.3	<0.63	-	NP	97.21	0.00	101.92	4.71
04/30/07	<0.0056	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	-	NP	93.87	0.00	101.92	8.05
09/26/07	<0.0056	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<10	NP	98.35	0.00	101.92	3.57
04/22/08	0.051	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<10	NP	98.07	0.00	101.92	3.85
09/25/08	<0.0066	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	102.00	0.00	101.92	-0.08
03/31/09	<0.0066	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	101.59	0.00	101.92	0.33
09/30/09	<0.0066	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	104.59	0.00	101.92	-2.67
05/05/10	<0.0066	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	102.42	0.00	101.92	-0.50
10/07/10	<0.0066	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	105.15	0.00	101.92	-3.23
03/31/11	<0.0066	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	100.61	0.00	101.92	1.31
09/29/11	<0.0066	<0.04	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	99.89	0.00	101.92	2.03
04/04/12	<0.0066	<0.04	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	96.58	0.00	101.92	5.34
09/27/12	<0.0066	<0.04	<0.18	1.0 J	<0.21	<0.45	<0.19	<5.2	NP	99.25	0.00	101.92	2.67
03/21/13	<0.0066	<0.04	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	97.74	0.00	101.92	4.18
09/26/13	<0.0066	<0.04	<0.18	<0.24	<0.21	<0.45	<0.19	<5.2	NP	102.71	0.00	101.92	-0.79
04/03/14	<0.0066	<0.04	<0.18	<0.24	<0.21	<0.46	<0.19	<5.2	NP	102.44	0.00	101.92	-0.52
WELL # AO-22													
05/28/92	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	86.89	0.00	86.40	-
08/22/92	-	-	-	-	-	-	-	-	NP	89.19	0.00	86.40	-
02/27/93	-	-	0.3	0.3	0.6	0.6	-	-	NP	87.08	0.00	86.40	-
04/18/94	-	-	-	-	-	-	-	-	NP	82.08	0.00	86.40	4.32
04/21/95	-	-	0.3	0.3	0.6	0.6	-	-	NP	77.05	0.00	86.40	9.35
04/09/96	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	74.15	0.00	86.40	12.25
04/29/97	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	72.67	0.00	86.40	13.73
04/22/98	-	-	24	4.3	1.2	10	-	-	NP	72.63	0.00	86.40	13.77
04/29/99	-	-	<1.0	5.0	<1.0	<1.0	-	-	NP	72.28	0.00	86.40	14.12
04/12/00	-	-	-	-	-	-	-	-	NP	74.65	0.00	86.40	11.75
04/04/01	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	75.74	0.00	86.40	10.66
11/13/01	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	78.39	0.00	86.40	8.01
04/01/02	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	77.60	0.00	86.40	8.80
11/01/02	-	-	-	-	-	-	-	-	NP	81.26	0.00	86.40	5.14
04/01/03	-	-	-	-	-	-	-	-	NP	79.03	0.00	86.40	7.37
11/01/03	-	-	-	-	-	-	-	-	NP	81.53	0.00	86.40	4.87
03/30/04	<0.01	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	80.90	0.00	86.40	5.50
11/22/04	<0.10	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	83.65	0.00	86.40	2.75
03/29/05	<0.10	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	81.79	0.00	86.40	4.61
12/07/05	-	-	-	-	-	-	-	-	NP	82.80	0.00	86.40	3.60
04/11/06	-	-	-	-	-	-	-	-	NP	76.93	0.00	86.40	9.47
12/05/06	-	-	-	-	-	-	-	-	NP	80.63	0.00	86.40	5.77
05/01/07	-	-	-	-	-	-	-	-	NP	78.18	0.00	86.40	8.22
09/25/07	-	-	-	-	-	-	-	-	NP	81.35	0.00	86.40	5.05

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
03/27/08	-	-	-	-	-	-	-	-	NP	80.84	0.00	88.40	5.56
09/22/08	-	-	-	-	-	-	-	-	NP	83.98	0.00	88.40	2.42
03/26/09	-	-	-	-	-	-	-	-	NP	83.00	0.00	88.40	3.40
05/28/09	WELL DESTROYED												
WELL # B-1	Area = OFF-SITE S												
09/20/85	-	-	-	-	-	-	-	-	NP	15.56	0.00	87.60	72.04
06/20/86	-	-	-	-	-	-	-	-	NP	12.22	0.00	87.60	75.38
02/26/87	-	-	-	-	-	-	-	-	NP	16.75	0.00	87.60	70.85
10/28/87	-	-	-	-	-	-	-	-	NP	19.24	0.00	87.60	68.36
02/08/88	-	-	-	-	-	-	-	-	NP	17.29	0.00	87.60	70.31
03/29/89	-	-	-	-	-	-	-	-	NP	16.23	0.00	87.60	71.37
03/26/90	-	-	-	-	-	-	-	-	NP	16.48	0.00	87.38	70.90
02/19/91	-	-	-	-	-	-	-	-	NP	17.44	0.00	87.38	69.94
03/02/92	-	-	-	-	-	-	-	-	NP	13.72	0.00	87.37	73.65
02/27/93	-	-	-	-	-	-	-	-	NP	10.22	0.00	87.37	77.15
04/18/94	-	-	-	-	-	-	-	-	NP	13.92	0.00	87.37	73.45
04/24/95	-	-	-	-	-	-	-	-	NP	13.08	0.00	87.37	74.29
04/08/96	-	-	-	-	-	-	-	-	NP	14.92	0.00	87.37	72.45
04/29/97	-	-	-	-	-	-	-	-	NP	13.39	0.00	87.37	73.98
04/23/98	-	-	-	-	-	-	-	-	NP	10.48	0.00	87.37	76.89
04/27/99	-	-	-	-	-	-	-	-	NP	15.30	0.00	87.37	72.07
04/12/00	-	-	-	-	-	-	-	-	NP	15.17	0.00	87.37	72.20
04/02/01	-	-	-	-	-	-	-	-	NP	13.15	0.00	87.37	74.22
04/01/02	-	-	-	-	-	-	-	-	NP	15.74	0.00	87.37	71.63
11/01/02	-	-	-	-	-	-	-	-	NP	17.78	0.00	87.37	69.59
04/01/03	-	-	-	-	-	-	-	-	NP	12.89	0.00	87.37	74.48
11/01/03	-	-	-	-	-	-	-	-	NP	13.40	0.00	87.37	73.97
03/30/04	-	-	-	-	-	-	-	-	NP	14.22	0.00	87.37	73.15
11/22/04	-	-	-	-	-	-	-	-	NP	13.28	0.00	87.37	74.09
03/29/05	-	-	-	-	-	-	-	-	NP	10.94	0.00	87.37	76.43
12/07/05	-	-	-	-	-	-	-	-	NP	13.18	0.00	87.37	74.19
04/11/06	-	-	-	-	-	-	-	-	NP	19.22	0.00	87.37	68.15
12/04/06	-	-	-	-	-	-	-	-	NP	18.62	0.00	87.37	68.75
05/01/07	-	-	-	-	-	-	-	-	NP	14.63	0.00	87.37	72.74
09/27/07	-	-	-	-	-	-	-	-	NP	19.42	0.00	87.37	67.95
03/27/08	-	-	-	-	-	-	-	-	NP	14.60	0.00	87.37	72.77
09/22/08	-	-	-	-	-	-	-	-	NP	19.76	0.00	87.37	67.61
03/26/09	-	-	-	-	-	-	-	-	NP	16.04	0.00	87.37	71.33
10/12/09	-	-	-	-	-	-	-	-	NP	16.65	0.00	87.37	70.72
05/04/10	-	-	-	-	-	-	-	-	NP	13.50	0.00	87.37	73.87
10/06/10	-	-	-	-	-	-	-	-	NP	17.81	0.00	87.37	69.56
03/30/11	-	-	-	-	-	-	-	-	NP	10.40	0.00	87.37	76.97
09/28/11	-	-	-	-	-	-	-	-	NP	15.55	0.00	87.37	71.82
04/03/12	-	-	-	-	-	-	-	-	NP	19.25	0.00	87.37	68.12
09/26/12	-	-	-	-	-	-	-	-	NP	20.70	0.00	87.37	66.67
03/20/13	-	-	-	-	-	-	-	-	NP	18.70	0.00	87.37	68.67
09/23/13	-	-	-	-	-	-	-	-	NP	21.33	0.00	87.37	66.04
04/01/14	-	-	-	-	-	-	-	-	NP	20.70	0.00	87.37	66.67
WELL # B-2	Area = OFF-SITE S							24					
09/20/85	-	-	-	-	-	-	-	-	DRY	-	-	84.50	-
06/20/86	-	-	-	-	-	-	-	-	DRY	-	-	84.50	-
02/26/87	-	-	-	-	-	-	-	-	DRY	-	-	84.50	-
02/08/88	-	-	-	-	-	-	-	-	DRY	-	-	84.50	-
03/29/89	-	-	-	-	-	-	-	-	DRY	-	-	84.50	-
03/26/90	-	-	-	-	-	-	-	-	NP	35.00	0.00	83.80	48.80
02/19/91	-	-	-	-	-	-	-	-	DRY	-	-	83.80	-
03/02/92	-	-	-	-	-	-	-	-	NP	35.17	0.00	83.76	48.59
02/27/93	-	-	-	-	-	-	-	-	NP	33.71	0.00	83.76	50.05
04/18/94	-	-	-	-	-	-	-	-	NP	35.04	0.00	83.76	48.72
11/05/94	-	-	-	-	-	-	-	-	NP	33.33	0.00	83.76	50.43
04/24/95	-	-	-	-	-	-	-	-	DRY	-	-	83.76	-
04/08/96	-	-	-	-	-	-	-	-	NP	35.42	0.00	83.76	48.34
04/29/97	-	-	-	-	-	-	-	-	NP	35.49	0.00	83.76	48.27
04/23/98	-	-	-	-	-	-	-	-	NP	35.34	0.00	83.76	48.42
11/03/99	-	-	-	-	-	-	-	-	DRY	-	-	83.76	-
04/12/00	-	-	-	-	-	-	-	-	DRY	-	-	83.76	-
04/02/01	-	-	-	-	-	-	-	-	DRY	-	-	83.97	-
04/01/02	-	-	-	-	-	-	-	-	DRY	-	-	83.79	-
11/01/02	-	-	-	-	-	-	-	-	DRY	-	-	83.97	-
04/01/03	-	-	-	-	-	-	-	-	DRY	-	-	83.97	-
11/01/03	-	-	-	-	-	-	-	-	DRY	-	-	83.97	-
03/30/04	-	-	-	-	-	-	-	-	DRY	-	-	83.97	-
11/22/04	-	-	-	-	-	-	-	-	DRY	-	-	83.97	-
03/29/05	-	-	-	-	-	-	-	-	NP	35.35	0.00	83.97	48.62
12/07/05	-	-	-	-	-	-	-	-	DRY	-	-	83.97	-
04/11/06	-	-	-	-	-	-	-	-	DRY	-	-	83.97	-
12/04/06	-	-	-	-	-	-	-	-	DRY	-	-	83.97	-
05/01/07	NO ACCESS	-	-	-	-	-	-	-	NO ACCESS	-	-	83.97	-
09/27/07	NO ACCESS	-	-	-	-	-	-	-	NO ACCESS	-	-	83.97	-
03/27/08	NO ACCESS	-	-	-	-	-	-	-	NO ACCESS	-	-	83.97	-
09/22/08	NO ACCESS	-	-	-	-	-	-	-	NO ACCESS	-	-	83.97	-
03/26/09	NO ACCESS	-	-	-	-	-	-	-	NO ACCESS	-	-	83.97	-
05/04/10	NO ACCESS	-	-	-	-	-	-	-	NO ACCESS	-	-	83.97	-
10/06/10	NO ACCESS	-	-	-	-	-	-	-	NO ACCESS; NOT FOUND		-	83.97	-

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
03/30/11	NO ACCESS	-	-	-	-	-	-	-	NO ACCESS: NOT FOUND		-	83.97	-
09/28/11	NO ACCESS	-	-	-	-	-	-	-	NO ACCESS: NOT FOUND		-	83.97	-
04/03/12	-	-	-	-	-	-	-	-	DRY	-	-	83.97	-
09/26/12	-	-	-	-	-	-	-	-	NO ACCESS	-	-	83.97	-
03/20/13	-	-	-	-	-	-	-	-	DRY	-	-	83.97	-
09/23/13	-	-	-	-	-	-	-	-	DRY	-	-	83.97	-
04/01/14	-	-	-	-	-	-	-	-	NO ACCESS	-	-	83.97	-
WELL # B-3	Area = OFF-SITE S												
09/20/85	-	-	-	-	-	-	-	-	DRY	-	-	84.00	-
06/20/86	-	-	-	-	-	-	-	-	DRY	-	-	84.00	-
02/26/87	-	-	-	-	-	-	-	-	DRY	-	-	84.00	-
02/08/88	-	-	-	-	-	-	-	-	DRY	-	-	84.00	-
03/29/89	-	-	-	-	-	-	-	-	DRY	-	-	84.00	-
03/26/90	-	-	-	-	-	-	-	-	DRY	-	-	83.28	-
02/19/91	-	-	-	-	-	-	-	-	DRY	-	-	83.28	-
03/02/92	-	-	-	-	-	-	-	-	NP	-	0.00	83.28	83.28
02/27/93	-	-	-	-	-	-	-	-	NP	-	0.00	83.28	83.28
04/24/95	-	-	-	-	-	-	-	-	DRY	-	-	83.28	-
04/08/96	-	-	-	-	-	-	-	-	DRY	-	-	83.28	-
04/28/97	-	-	-	-	-	-	-	-	DRY	-	-	83.28	-
04/22/98	-	-	-	-	-	-	-	-	DRY	-	-	83.28	-
04/27/99	-	-	-	-	-	-	-	-	DRY	-	-	83.28	-
04/12/00	-	-	-	-	-	-	-	-	DRY	-	-	83.28	-
04/02/01	-	-	-	-	-	-	-	-	DRY	-	-	83.28	-
04/01/02	-	-	-	-	-	-	-	-	DRY	-	-	83.28	-
11/01/02	-	-	-	-	-	-	-	-	DRY	-	-	83.28	-
04/01/03	-	-	-	-	-	-	-	-	DRY	-	-	83.28	-
11/01/03	-	-	-	-	-	-	-	-	DRY	-	-	83.28	-
03/30/04	-	-	-	-	-	-	-	-	DRY	-	-	83.28	-
11/22/04	-	-	-	-	-	-	-	-	DRY	-	-	83.28	-
03/29/05	-	-	-	-	-	-	-	-	NP	45.50	0.00	83.28	37.78
12/07/05	-	-	-	-	-	-	-	-	NP	45.54	0.00	83.28	37.74
04/11/06	-	-	-	-	-	-	-	-	DRY	-	-	-	-
12/04/06	-	-	-	-	-	-	-	-	DRY	-	-	83.28	-
05/01/07	-	-	-	-	-	-	-	-	DRY	-	-	83.28	-
09/27/07	-	-	-	-	-	-	-	-	DRY	-	-	83.28	-
03/27/08	-	-	-	-	-	-	-	-	NP	45.52	0.00	83.28	37.76
09/22/08	-	-	-	-	-	-	-	-	DRY	-	-	83.28	-
03/26/09	-	-	-	-	-	-	-	-	DRY	-	-	83.28	-
10/12/09	-	-	-	-	-	-	-	-	DRY	-	-	83.28	-
06/04/10	-	-	-	-	-	-	-	-	DRY	-	-	83.28	-
10/06/10	-	-	-	-	-	-	-	-	DRY	-	-	83.28	-
03/30/11	-	-	-	-	-	-	-	-	DRY	-	-	83.28	-
09/28/11	-	-	-	-	-	-	-	-	DRY	-	-	83.28	-
04/03/12	-	-	-	-	-	-	-	-	DRY	-	-	83.28	-
09/26/12	-	-	-	-	-	-	-	-	DRY	-	-	83.28	-
03/20/13	-	-	-	-	-	-	-	-	DRY	-	-	83.28	-
09/23/13	-	-	-	-	-	-	-	-	DRY	-	-	83.28	-
04/01/14	-	-	-	-	-	-	-	-	DRY	-	-	83.28	-
WELL # B-4	Area = OFF-SITE S												
09/23/85	-	-	-	-	-	-	-	-	DRY	-	-	97.10	-
06/20/86	-	-	-	-	-	-	-	-	DRY	-	-	97.10	-
02/26/87	-	-	-	-	-	-	-	-	DRY	-	-	97.10	-
03/31/88	-	-	-	-	-	-	-	-	DRY	-	-	97.10	-
03/29/89	-	-	-	-	-	-	-	-	DRY	-	-	97.10	-
03/26/90	-	-	-	-	-	-	-	-	DRY	-	-	97.85	-
02/19/91	-	-	-	-	-	-	-	-	DRY	-	-	97.80	-
03/02/92	-	-	-	-	-	-	-	-	DRY	-	-	97.80	-
02/27/93	-	-	-	-	-	-	-	-	DRY	-	-	97.80	-
04/18/94	-	-	-	-	-	-	-	-	DRY	-	-	97.80	-
04/24/95	-	-	-	-	-	-	-	-	DRY	-	-	97.80	-
04/10/96	-	-	-	-	-	-	-	-	DRY	-	-	97.80	-
05/01/97	-	-	-	-	-	-	-	-	DRY	-	-	97.80	-
04/23/98	-	-	-	-	-	-	-	-	DRY	-	-	97.80	-
04/29/99	-	-	-	-	-	-	-	-	DRY	-	-	97.80	-
04/10/00	-	-	-	-	-	-	-	-	DRY	-	-	97.80	-
04/03/01	-	-	-	-	-	-	-	-	DRY	-	-	97.80	-
04/01/02	-	-	-	-	-	-	-	-	DRY	-	-	97.80	-
11/01/02	-	-	-	-	-	-	-	-	DRY	-	-	97.80	-
04/01/03	-	-	-	-	-	-	-	-	DRY	-	-	97.80	-
11/01/03	-	-	-	-	-	-	-	-	DRY	-	-	97.80	-
03/30/04	-	-	-	-	-	-	-	-	Not found	-	-	-	-
11/22/04	-	-	-	-	-	-	-	-	Not found	-	-	-	-
WELL # B-6	Area = OFF-SITE S												
09/20/85	-	-	-	-	-	-	-	-	DRY	-	-	90.60	-
06/20/86	-	-	-	-	-	-	-	-	DRY	-	-	90.60	-
02/26/87	-	-	-	-	-	-	-	-	DRY	-	-	90.60	-
02/08/88	-	-	-	-	-	-	-	-	DRY	-	-	90.60	-
03/29/89	-	-	-	-	-	-	-	-	DRY	-	-	90.60	-
03/26/90	-	-	-	-	-	-	-	-	DRY	-	-	90.40	-
11/01/93	-	-	-	-	-	-	-	-	DRY	-	-	90.40	-
04/18/94	-	-	-	-	-	-	-	-	DRY	-	-	90.40	-

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	Ethylbenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
11/07/95	-	-	-	-	-	-	-	-	DRY	-	-	90.40	-
04/08/96	-	-	-	-	-	-	-	-	DRY	-	-	90.40	-
04/29/97	-	-	-	-	-	-	-	-	DRY	-	-	90.40	-
04/21/98	-	-	-	-	-	-	-	-	DRY	-	-	90.40	-
04/27/99	-	-	-	-	-	-	-	-	DRY	-	-	90.40	-
WELL # B-10	Area = OFF-SITE S												
09/20/85	-	-	-	-	-	-	-	-	NP	23.50	0.00	88.00	64.50
06/20/86	-	-	-	-	-	-	-	-	NP	22.97	0.00	88.00	65.03
02/26/87	-	-	-	-	-	-	-	-	NP	21.70	0.00	88.00	66.30
02/08/88	-	-	-	-	-	-	-	-	NP	23.96	0.00	88.00	64.04
03/29/89	-	-	-	-	-	-	-	-	NP	25.44	0.00	88.00	62.56
03/26/90	-	-	-	-	-	-	-	-	NP	24.65	0.00	87.76	63.11
02/19/91	-	-	-	-	-	-	-	-	NP	24.79	0.00	87.76	62.97
06/22/92	-	-	-	-	-	-	-	-	NP	25.66	0.00	87.65	62.09
02/27/93	-	-	-	-	-	-	-	-	NP	23.67	0.00	87.65	63.98
04/18/94	-	-	-	-	-	-	-	-	NP	24.25	0.00	87.65	63.40
04/21/95	-	-	-	-	-	-	-	-	NP	23.30	0.00	87.65	64.35
04/08/96	-	-	-	-	-	-	-	-	NP	23.79	0.00	87.65	63.86
04/29/97	-	-	-	-	-	-	-	-	NP	23.21	0.00	87.65	64.44
04/21/98	-	-	-	-	-	-	-	-	NP	21.90	0.00	87.65	65.75
04/27/99	-	-	-	-	-	-	-	-	NP	23.00	0.00	87.65	64.65
04/11/00	-	-	-	-	-	-	-	-	NP	23.42	0.00	87.65	64.23
04/04/01	-	-	-	-	-	-	-	-	NP	23.06	0.00	87.65	64.59
04/01/02	-	-	-	-	-	-	-	-	NP	23.85	0.00	87.65	63.80
11/01/02	-	-	-	-	-	-	-	-	NP	24.31	0.00	87.65	63.34
04/01/03	-	-	-	-	-	-	-	-	NP	23.70	0.00	87.65	63.95
03/30/04	-	-	-	-	-	-	-	-	NP	23.53	0.00	87.65	64.12
11/22/04	-	-	-	-	-	-	-	-	NP	23.72	0.00	87.65	63.93
03/29/05	-	-	-	-	-	-	-	-	NP	21.65	0.00	87.65	66.00
12/07/05	-	-	-	-	-	-	-	-	NP	22.28	0.00	87.65	65.37
04/11/06	-	-	-	-	-	-	-	-	NP	22.82	0.00	87.65	64.83
12/04/06	-	-	-	-	-	-	-	-	NP	23.11	0.00	87.65	64.54
05/01/07	-	-	-	-	-	-	-	-	NP	23.50	0.00	87.65	64.15
09/27/07	-	-	-	-	-	-	-	-	NP	23.98	0.00	87.65	63.67
03/27/08	-	-	-	-	-	-	-	-	NP	24.08	0.00	87.65	63.57
09/22/08	-	-	-	-	-	-	-	-	NP	24.32	0.00	87.65	63.33
03/26/09	-	-	-	-	-	-	-	-	NP	24.12	0.00	87.65	63.53
10/12/09	-	-	-	-	-	-	-	-	NP	22.12	0.00	87.65	65.53
05/04/10	-	-	-	-	-	-	-	-	NP	23.58	0.00	87.65	64.07
10/08/10	-	-	-	-	-	-	-	-	NP	23.92	0.00	87.65	63.73
03/30/11	-	-	-	-	-	-	-	-	NP	23.30	0.00	87.65	64.35
09/28/11	-	-	-	-	-	-	-	-	NP	23.40	0.00	87.65	64.25
04/03/12	-	-	-	-	-	-	-	-	NP	24.05	0.00	87.65	63.60
09/26/12	-	-	-	-	-	-	-	-	NP	24.24	0.00	87.65	63.41
03/20/13	-	-	-	-	-	-	-	-	NP	24.60	0.00	87.65	63.05
09/23/13	-	-	-	-	-	-	-	-	NP	25.01	0.00	87.65	62.64
04/01/14	-	-	-	-	-	-	-	-	NP	22.64	0.00	87.65	65.01
WELL # B-13	Area = OFF-SITE S												
09/20/85	-	-	-	-	-	-	-	-	20.10	24.20	4.10	85.90	64.80
11/07/86	-	-	-	-	-	-	-	-	20.13	24.29	4.16	85.90	64.75
02/26/87	-	-	-	-	-	-	-	-	20.09	24.24	4.15	85.90	64.79
02/08/88	-	-	-	-	-	-	-	-	20.68	23.91	3.23	85.90	64.43
03/29/89	-	-	-	-	-	-	-	-	21.65	24.29	2.64	85.90	63.60
01/10/90	-	-	-	-	-	-	-	-	21.99	24.57	2.58	85.09	62.47
02/19/91	-	-	-	-	-	-	-	-	22.54	24.89	2.35	85.09	61.97
03/02/92	-	-	-	-	-	-	-	-	21.25	23.83	2.58	85.11	63.23
05/13/93	-	-	-	-	-	-	-	-	21.10	24.74	3.64	85.11	63.12
04/18/94	-	-	-	-	-	-	-	-	21.42	21.92	0.50	85.11	63.57
11/05/94	-	-	-	-	-	-	-	-	23.83	24.42	0.59	85.11	61.14
04/22/95	-	-	-	-	-	-	-	-	NP	23.83	0.00	85.11	61.28
04/08/96	-	-	-	-	-	-	-	-	20.48	23.21	2.73	85.11	63.96
04/29/97	-	-	-	-	-	-	-	-	20.52	24.60	4.08	85.11	63.59
04/24/98	-	-	-	-	-	-	-	-	18.76	21.00	2.24	85.11	65.80
04/27/99	-	-	-	-	-	-	-	-	19.55	23.03	3.48	85.11	64.71
04/12/00	-	-	-	-	-	-	-	-	20.09	23.28	3.19	85.11	64.24
04/04/01	-	-	-	-	-	-	-	-	19.94	22.91	3.17	85.11	64.69
04/01/02	-	-	-	-	-	-	-	-	21.48	22.16	0.68	85.11	63.46
08/07/02	220	-	9,100	35,000	4,600	26,000	-	-	-	-	-	-	-
11/01/02	-	-	-	-	-	-	-	-	22.06	23.81	1.75	85.11	62.62
04/01/03	-	-	-	-	-	-	-	-	20.10	20.15	0.05	85.11	65.00
11/01/03	-	-	-	-	-	-	-	-	21.01	23.68	2.67	85.11	63.45
03/30/04	-	-	-	-	-	-	-	-	21.25	21.80	0.55	85.11	63.73
11/22/04	-	-	-	-	-	-	-	-	21.54	22.78	1.24	85.11	63.27
03/29/05	-	-	-	-	-	-	-	-	17.82	17.84	0.02	85.11	67.29
12/07/05	-	-	-	-	-	-	-	-	17.82	19.50	1.68	85.11	66.88
04/11/06	-	-	-	-	-	-	-	-	16.70	18.20	1.50	85.11	68.04
12/04/06	-	-	-	-	-	-	-	-	20.48	21.05	0.57	85.11	64.49
05/01/07	-	-	-	-	-	-	-	-	21.25	21.70	0.45	85.11	63.75
09/27/07	-	-	-	-	-	-	-	-	21.32	22.06	0.74	85.11	63.61
03/27/08	-	-	-	-	-	-	-	-	19.86	20.15	0.29	85.11	65.16
09/22/08	-	-	-	-	-	-	-	-	21.45	22.10	0.65	85.11	63.50
03/26/09	-	-	-	-	-	-	-	-	20.05	20.70	0.65	85.11	64.90
10/12/09	-	-	-	-	-	-	-	-	21.80	21.82	0.02	85.11	63.31
05/04/10	-	-	-	-	-	-	-	-	20.40	20.80	0.40	85.11	64.61

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT (feet)	DEPTH TO GROUNDWATER (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)					
10/06/10	-	-	-	-	-	-	-	-	21.40	22.00	0.60	85.11	63.56
03/30/11	-	-	-	-	-	-	-	-	17.55	17.58	0.03	85.11	67.55
09/28/11	-	-	-	-	-	-	-	-	20.55	20.61	0.06	85.11	64.55
04/03/12	-	-	-	-	-	-	-	-	20.48	20.52	0.04	85.11	64.62
09/26/12	-	-	-	-	-	-	-	-	20.85	20.90	0.05	85.11	64.26
03/20/13	-	-	-	-	-	-	-	-	NP	21.90	0.00	85.11	63.21
09/23/13	-	-	-	-	-	-	-	-	22.83	23.00	0.17	85.11	62.24
04/01/14	-	-	-	-	-	-	-	-	20.66	21.48	0.82	85.11	64.25
WELL # B-15	Area = OFF-SITE S												
09/20/85	-	-	-	-	-	-	-	-	21.30	26.60	5.30	84.40	61.80
06/20/86	-	-	-	-	-	-	-	-	20.64	25.98	5.34	84.40	62.45
02/26/87	-	-	-	-	-	-	-	-	21.45	26.24	4.79	84.40	61.78
02/08/88	-	-	-	-	-	-	-	-	22.28	26.93	4.65	84.40	60.98
03/29/89	-	-	-	-	-	-	-	-	23.04	26.48	3.44	84.40	60.52
01/10/90	-	-	-	-	-	-	-	-	23.52	24.55	1.03	84.73	60.96
02/19/91	-	-	-	-	-	-	-	-	24.08	25.48	1.40	84.73	60.31
08/15/91	-	-	-	-	-	-	-	-	25.77	27.07	1.30	84.73	58.64
03/02/92	-	-	-	-	-	-	-	-	24.25	25.67	1.42	84.73	60.13
02/27/93	-	-	-	-	-	-	-	-	23.31	23.35	0.04	84.73	61.41
04/18/94	-	-	-	-	-	-	-	-	22.83	25.25	2.42	84.73	61.31
04/22/95	-	-	-	-	-	-	-	-	NP	22.91	0.00	84.73	61.82
04/08/96	-	-	-	-	-	-	-	-	NP	23.15	0.00	84.73	61.58
04/28/97	-	-	-	-	-	-	-	-	NP	22.96	0.00	84.73	61.77
04/22/98	-	-	-	-	-	-	-	-	NP	21.96	0.00	84.73	62.77
11/02/98	-	-	-	-	-	-	-	-	NP	21.22	0.00	84.73	63.51
04/29/99	-	-	-	-	-	-	-	-	NP	21.87	0.00	84.73	62.86
04/12/00	-	-	-	-	-	-	-	-	NP	22.47	0.00	84.73	62.26
04/02/01	-	-	-	-	-	-	-	-	NP	22.57	0.00	84.73	62.16
04/01/02	-	-	-	-	-	-	-	-	NP	23.13	0.00	84.73	61.60
08/07/02	5.2		140	28	140	91	-	-	-	-	-	-	-
11/01/02	-	-	-	-	-	-	-	-	NP	23.76	0.00	84.73	60.97
04/01/03	-	-	-	-	-	-	-	-	NP	23.23	0.00	84.73	61.50
11/01/03	-	-	-	-	-	-	-	-	NP	23.11	0.00	84.73	61.62
03/30/04	-	-	-	-	-	-	-	-	NP	23.35	0.00	84.73	61.38
11/22/04	-	-	-	-	-	-	-	-	NP	23.57	0.00	84.73	61.16
03/29/06	-	-	-	-	-	-	-	-	NP	21.62	0.00	84.73	63.11
12/08/05	-	-	-	-	-	-	-	-	NP	21.34	0.00	84.73	63.39
04/11/06	-	-	-	-	-	-	-	-	NP	21.71	0.00	84.73	63.02
12/04/06	-	-	-	-	-	-	-	-	NP	22.45	0.00	84.73	62.28
05/01/07	-	-	-	-	-	-	-	-	NP	22.79	0.00	84.73	61.94
09/26/07	-	-	-	-	-	-	-	-	NP	23.20	0.00	84.73	61.53
03/27/08	-	-	-	-	-	-	-	-	NP	22.62	0.00	84.73	62.11
09/22/08	-	-	-	-	-	-	-	-	NP	23.10	0.00	84.73	61.63
03/26/09	-	-	-	-	-	-	-	-	NP	23.15	0.00	84.73	61.58
10/12/09	-	-	-	-	-	-	-	-	NP	23.70	0.00	84.73	61.03
05/04/10	-	-	-	-	-	-	-	-	NP	23.30	0.00	84.73	61.43
10/06/10	-	-	-	-	-	-	-	-	NP	23.60	0.00	84.73	61.13
03/30/11	-	-	-	-	-	-	-	-	NP	22.82	0.00	84.73	61.91
09/28/11	-	-	-	-	-	-	-	-	NP	22.70	0.00	84.73	62.03
04/03/12	-	-	-	-	-	-	-	-	NP	23.17	0.00	84.73	61.56
09/26/12	-	-	-	-	-	-	-	-	NP	23.73	0.00	84.73	61.00
03/20/13	-	-	-	-	-	-	-	-	NP	24.12	0.00	84.73	60.61
09/23/13	-	-	-	-	-	-	-	-	NP	24.50	0.00	84.73	60.23
04/01/14	-	-	-	-	-	-	-	-	NP	24.66	0.00	84.73	60.07
WELL # B-16	Area = OFF-SITE S												
09/20/85	-	-	-	-	-	-	-	-	NP	20.20	0.00	82.40	62.20
06/20/86	-	-	-	-	-	-	-	-	DRY	-	-	82.40	-
02/26/87	-	-	-	-	-	-	-	-	DRY	-	-	82.40	-
02/08/88	-	-	-	-	-	-	-	-	DRY	-	-	82.40	-
03/29/89	-	-	-	-	-	-	-	-	22.46	23.10	0.64	82.40	59.78
01/10/90	-	-	-	-	-	-	-	-	22.86	24.39	1.53	82.22	58.99
02/19/91	-	-	-	-	-	-	-	-	23.69	25.58	1.89	82.22	58.07
03/02/92	-	-	-	-	-	-	-	-	23.92	25.33	1.41	82.18	57.91
08/22/92	-	-	-	-	-	-	-	-	24.17	25.50	1.33	82.18	57.66
02/27/93	-	-	-	-	-	-	-	-	23.45	23.48	0.03	82.18	58.72
04/18/94	-	-	-	-	-	-	-	-	DRY	-	-	82.18	-
04/22/95	-	-	-	-	-	-	-	-	21.98	25.04	3.06	82.18	59.45
04/09/96	-	-	-	-	-	-	-	-	22.23	24.75	2.52	82.18	59.33
04/28/97	-	-	-	-	-	-	-	-	21.71	25.42	3.71	82.18	59.56
04/22/98	-	-	-	-	-	-	-	-	19.77	25.12	5.35	82.18	61.10
11/02/98	-	-	-	-	-	-	-	-	19.16	24.00	4.85	82.18	61.84
04/29/99	-	-	-	-	-	-	-	-	19.75	24.37	4.62	82.18	61.30
04/12/00	-	-	-	-	-	-	-	-	21.73	24.80	3.07	82.18	59.70
04/02/01	-	-	-	-	-	-	-	-	22.30	22.92	0.62	82.18	59.73
04/01/02	-	-	-	-	-	-	-	-	23.13	23.28	0.15	82.18	59.01
08/07/02	140	-	6,700	26,000	3,300	22,000	-	-	-	-	-	-	-
11/01/02	-	-	-	-	-	-	-	-	23.41	23.55	0.14	82.18	58.74
11/01/03	-	-	-	-	-	-	-	-	22.72	23.68	0.96	82.18	59.22
03/30/04	-	-	-	-	-	-	-	-	23.24	23.64	0.40	82.18	58.84
11/22/04	-	-	-	-	-	-	-	-	23.45	23.66	0.21	82.18	58.68
03/29/05	-	-	-	-	-	-	-	-	20.73	21.83	1.10	82.18	61.18
12/08/05	-	-	-	-	-	-	-	-	20.44	21.54	1.10	82.18	61.47
04/11/06	-	-	-	-	-	-	-	-	21.04	22.94	1.90	82.18	60.67

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
12/04/06	-	-	-	-	-	-	-	-	21.95	22.84	0.89	82.18	60.01
05/01/07	-	-	-	-	-	-	-	-	22.46	22.88	0.42	82.18	59.62
09/26/07	-	-	-	-	-	-	-	-	22.76	23.03	0.27	82.18	59.35
03/27/08	-	-	-	-	-	-	-	-	22.48	23.12	0.64	82.18	59.54
09/22/08	-	-	-	-	-	-	-	-	22.19	22.64	0.45	82.18	59.88
03/26/09	-	-	-	-	-	-	-	-	22.10	23.01	0.91	82.18	59.86
10/12/09	-	-	-	-	-	-	-	-	23.27	23.47	0.20	82.18	58.88
05/04/10	-	-	-	-	-	-	-	-	22.70	23.57	0.87	82.18	59.27
10/06/10	-	-	-	-	-	-	-	-	NP	23.10	0.00	82.18	59.08
03/30/11	-	-	-	-	-	-	-	-	21.86	22.91	1.05	82.18	60.06
09/28/11	-	-	-	-	-	-	-	-	21.96	22.36	0.40	82.18	60.12
04/03/12	-	-	-	-	-	-	-	-	22.77	22.96	0.19	82.18	59.36
09/26/12	-	-	-	-	-	-	-	-	23.33	23.35	0.02	82.18	58.85
03/20/13	-	-	-	-	-	-	-	-	NP	23.65	0.00	82.18	58.53
09/23/13	-	-	-	-	-	-	-	-	23.94	23.95	0.01	82.18	58.24
04/01/14	-	-	-	-	-	-	-	-	24.16	24.24	0.08	82.18	58.00
WELL # B-18	Area = OFF-SITE S												
06/20/85	-	-	-	-	-	-	-	-	19.90	24.71	4.81	84.00	62.92
02/26/87	-	-	-	-	-	-	-	-	20.70	24.90	4.20	84.00	62.27
02/08/88	-	-	-	-	-	-	-	-	21.70	24.75	3.05	84.00	61.55
03/29/89	-	-	-	-	-	-	-	-	22.46	24.77	2.31	84.00	60.97
11/01/02	-	-	-	-	-	-	-	-	-	-	-	-	-
04/01/03	-	-	-	-	-	-	-	-	-	-	-	-	-
03/30/04	-	-	-	-	-	-	-	-	NO ACCESS	-	-	-	-
11/22/04	-	-	-	-	-	-	-	-	NO ACCESS	-	-	-	-
03/05/06	-	-	-	-	-	-	-	-	NO ACCESS	-	-	-	-
12/06/05	-	-	-	-	-	-	-	-	NO ACCESS	-	-	-	-
04/11/06	-	-	-	-	-	-	-	-	NO ACCESS	-	-	-	-
12/04/06	-	-	-	-	-	-	-	-	NO ACCESS	-	-	-	-
03/27/08	-	-	-	-	-	-	-	-	NO ACCESS	-	-	-	-
04/02/08	-	-	-	-	-	-	-	-	NO ACCESS	-	-	-	-
09/22/08	-	-	-	-	-	-	-	-	NO ACCESS	-	-	-	-
CARMENITA SUMP INLFUENT													
03/01/04	18	-	1,200	1,300	390	3,600	41	-	-	-	-	-	-
11/01/04	16	-	1,100	1,500	660	5,600	53	-	-	-	-	-	-
03/01/05	18.2	-	3,620	3,040	1,450	8,940	<65		-	-	-	-	-
12/06/05	62.6	-	3,110	5,640	739	12,300	61		-	-	-	-	-
12/05/06	60.6	-	1,420	2,500	373	9,950	40		-	-	-	-	-
04/30/07	2.48	4.0	13	<0.24	<0.21	2,030	27		-	-	-	-	-
09/26/07	38.1	3.0	362	349	<2.1	3,760	39	<100	-	-	-	-	-
04/22/08	38.1	32,800	691	964	<21	8,350	<19	<1,000	-	-	-	-	-
09/25/08	31.3	5.0	1,200	1,740	1,290	10,400	<19	<520	-	-	-	-	-
03/31/09	27.5	6.6	707	1,120	968	7,250	<19	<520	-	-	-	-	-
09/30/09	26.7	77	488	340	101	5,800	12	165	-	-	-	-	-
05/05/10	30.9	2	746	675	985	6,010	14	105	-	-	-	-	-
10/07/10	38.2	6.0	1,260	1,820	1,180	8,950	<19.0	<520.0	-	-	-	-	-
03/31/11	32.9	5.3	1,050	1,290	932	6,210	<19.0	<520.0	-	-	-	-	-
09/29/11	136	1.0	5,300	15,000	3,300	20,000	<19	<520	-	-	-	-	-
04/04/12	143	87	4,300	14,000	4,200	25,000	<19	<520	-	-	-	-	-
09/27/12	42.6	3.4	1,600	3,700	1,500	16,000	<3.8	<104	-	-	-	-	-
03/25/13	40	7.4	1,600	2,900	1,200	9,800	<3.8	<104	-	-	-	-	-
09/26/13	71.8	7.1	2,000	5,700	1,700	15,000	<4.75	<130	-	-	-	-	-
04/03/14	85.5	25	2,900	8,200	2,900	22,000	<19	<520	-	-	-	-	-
WELL # CCW	Area = OFF-SITE S												
09/20/85	-	-	-	-	-	-	-	-	NP	20.10	0.00	85.80	65.70
06/19/86	-	-	-	-	-	-	-	-	18.97	18.98	0.01	85.80	66.83
02/26/87	-	-	-	-	-	-	-	-	NP	19.81	0.00	85.80	65.99
02/08/88	-	-	-	-	-	-	-	-	NP	20.56	0.00	85.80	65.24
03/29/89	-	-	-	-	-	-	-	-	20.81	22.25	1.44	85.80	64.64
04/11/90	-	-	-	-	-	-	-	-	21.10	22.59	1.49	85.39	63.92
08/18/90	-	-	-	-	-	-	-	-	21.24	23.00	1.76	85.39	63.72
02/19/91	-	-	-	-	-	-	-	-	21.14	22.25	1.11	85.39	63.98
03/02/92	-	-	-	-	-	-	-	-	20.71	21.67	0.96	85.33	64.38
02/27/93	-	-	-	-	-	-	-	-	19.09	20.07	0.98	85.33	66.00
04/18/94	-	-	-	-	-	-	-	-	DRY	-	-	85.33	-
04/24/95	-	-	-	-	-	-	-	-	DRY	-	-	85.33	-
04/09/96	-	-	-	-	-	-	-	-	19.79	20.71	0.92	85.33	65.31
04/29/97	-	-	-	-	-	-	-	-	19.71	20.57	0.86	85.33	65.41
04/23/98	-	-	-	-	-	-	-	-	17.62	18.43	0.81	85.33	67.51
04/27/99	-	-	-	-	-	-	-	-	19.32	20.12	0.80	85.33	65.81
04/12/00	-	-	-	-	-	-	-	-	20.22	20.98	0.76	85.33	64.92
04/04/01	-	-	-	-	-	-	-	-	NP	19.06	0.00	85.33	66.27
04/01/02	-	-	-	-	-	-	-	-	NP	20.56	0.00	85.33	64.78
08/07/02	28	-	630	2,700	520	3,400	-	-	-	-	-	-	-
11/01/02	-	-	-	-	-	-	-	-	NP	21.05	0.00	85.33	64.28
04/01/03	-	-	-	-	-	-	-	-	NP	20.04	0.00	85.33	65.29
11/01/03	-	-	-	-	-	-	-	-	NP	19.74	0.00	85.33	65.59
03/30/04	-	-	-	-	-	-	-	-	NP	19.88	0.00	85.33	65.45
11/22/04	-	-	-	-	-	-	-	-	NP	20.25	0.00	85.33	65.08
03/29/05	-	-	-	-	-	-	-	-	NP	17.76	0.00	85.33	67.57
12/07/05	-	-	-	-	-	-	-	-	NP	18.82	0.00	85.33	66.51
04/11/06	-	-	-	-	-	-	-	-	NP	19.16	0.00	85.33	66.17

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
12/04/06	-	-	-	-	-	-	-	-	NP	20.05	0.00	85.33	65.28
05/01/07	-	-	-	-	-	-	-	-	NP	20.55	0.00	85.33	64.78
09/27/07	-	-	-	-	-	-	-	-	20.86	20.93	0.07	85.33	64.45
03/27/08	-	-	-	-	-	-	-	-	20.48	21.30	0.82	85.33	64.55
09/22/08	-	-	-	-	-	-	-	-	20.84	21.60	0.76	85.33	64.30
03/26/09	-	-	-	-	-	-	-	-	20.52	21.48	0.96	85.33	64.57
10/12/09	-	-	-	-	-	-	-	-	21.05	22.00	0.95	85.33	64.05
05/04/10	-	-	-	-	-	-	-	-	20.22	21.00	0.78	85.33	64.92
10/06/10	-	-	-	-	-	-	-	-	20.74	21.60	0.86	85.33	64.38
03/30/11	-	-	-	-	-	-	-	-	19.12	19.80	0.68	85.33	66.04
09/28/11	-	-	-	-	-	-	-	-	19.80	20.70	0.90	85.33	65.31
04/03/12	-	-	-	-	-	-	-	-	20.40	21.20	0.80	85.33	64.73
09/26/12	-	-	-	-	-	-	-	-	21.00	21.05	0.05	85.33	64.32
03/20/13	-	-	-	-	-	-	-	-	21.18	21.72	0.54	85.33	64.02
09/23/13	-	-	-	-	-	-	-	-	21.54	22.51	0.97	85.33	63.55
04/01/14	-	-	-	-	-	-	-	-	NP	21.83	0.00	85.33	63.50
WELL # DA-1													
02/01/90	<1.0	-	<1.0	<1.0	<1.0	<1.0	-	-	-	-	-	-	-
02/19/91	-	-	-	-	-	-	-	-	NP	89.44	0.00	85.98	-
03/02/92	-	-	-	-	-	-	-	-	NP	89.08	0.00	86.31	-
06/22/92	-	-	-	-	-	-	-	-	NP	94.06	0.00	86.31	-
02/27/93	-	-	-	-	-	-	-	-	NP	87.56	0.00	86.31	-
04/18/94	-	-	-	-	-	-	-	-	NP	85.42	0.00	86.31	0.89
04/20/95	-	-	-	-	-	-	-	-	NP	77.43	0.00	86.31	8.88
04/10/96	-	-	-	-	-	-	-	-	NP	75.10	0.00	86.31	11.21
05/01/97	-	-	-	-	-	-	-	-	NP	74.02	0.00	86.31	12.29
04/21/98	-	-	-	-	-	-	-	-	NP	74.48	0.00	86.31	11.83
04/26/99	-	-	-	-	-	-	-	-	NP	75.11	0.00	86.31	11.20
04/10/00	-	-	-	-	-	-	-	-	NP	78.46	0.00	86.31	7.85
04/03/01	-	-	-	-	-	-	-	-	NP	79.14	0.00	86.31	7.17
04/01/02	-	-	-	-	-	-	-	-	NP	81.53	0.00	86.31	4.78
11/01/02	-	-	-	-	-	-	-	-	NP	86.41	0.00	86.31	-
04/01/03	-	-	-	-	-	-	-	-	NP	83.64	0.00	86.31	2.67
11/01/03	-	-	-	-	-	-	-	-	NP	86.31	0.00	86.31	0.00
03/30/04	-	-	-	-	-	-	-	-				not found	
	WELL DESTROYED												
WELL # DA-2													
02/01/90	<1.0	-	<1.0	<1.0	<1.0	<1.0	-	-	-	-	-	-	-
02/19/91	-	-	-	-	-	-	-	-	NP	99.85	0.00	97.78	-
03/02/92	-	-	-	-	-	-	-	-	NP	99.31	0.00	97.72	-
06/22/92	-	-	-	-	-	-	-	-	NP	104.17	0.00	97.72	-
02/27/93	-	-	-	-	-	-	-	-	NP	98.05	0.00	97.72	-
04/18/94	-	-	-	-	-	-	-	-	NP	91.58	0.00	97.72	6.14
04/20/95	-	-	-	-	-	-	-	-	NP	87.56	0.00	97.72	10.16
01/00/00	-	-	-	-	-	-	-	-	NP	84.79	0.00	97.72	12.93
05/01/97	-	-	-	-	-	-	-	-	NP	83.97	0.00	97.72	13.75
04/23/98	-	-	-	-	-	-	-	-	NP	84.43	0.00	97.72	13.29
04/26/99	-	-	-	-	-	-	-	-	NP	84.72	0.00	97.72	13.00
04/11/00	-	-	-	-	-	-	-	-	NP	87.95	0.00	97.72	9.77
	WELL DESTROYED												
WELL # DA-3													
02/01/90	<1.0	-	<1.0	<1.0	<1.0	<1.0	-	-	-	-	-	-	-
02/19/91	-	-	-	-	-	-	-	-	NP	94.09	0.00	93.37	-
03/02/92	-	-	-	-	-	-	-	-	NP	93.44	0.00	93.38	-
06/22/92	-	-	-	-	-	-	-	-	NP	97.75	0.00	93.38	-
02/27/93	-	-	-	-	-	-	-	-	NP	92.00	0.00	93.38	1.38
04/18/94	-	-	-	-	-	-	-	-	NP	85.40	0.00	93.38	7.98
04/20/95	-	-	-	-	-	-	-	-	NP	81.52	0.00	93.38	11.86
04/09/96	-	-	-	-	-	-	-	-	NP	78.92	0.00	93.38	14.46
04/30/97	-	-	-	-	-	-	-	-	NP	77.76	0.00	93.38	15.62
04/21/98	-	-	-	-	-	-	-	-	NP	78.04	0.00	93.38	15.34
	WELL DESTROYED												
WELL # GW-1	Area = OFF-SITE N												
11/01/87	-	-	1.0	-	-	-	-	-	-	-	-	-	-
06/08/89	-	-	-	-	-	-	-	-	79.17	81.00	1.83	94.02	14.40
11/01/93	-	-	-	-	-	-	-	-	NP	86.33	0.00	93.03	6.70
04/18/94	-	-	-	-	-	-	-	-	NP	83.23	0.00	93.03	9.80
04/25/95	-	-	-	-	-	-	-	-	74.00	74.25	0.25	93.03	18.97
04/09/96	-	-	-	-	-	-	-	-	NP	74.04	0.00	93.03	18.99
04/29/97	-	-	-	-	-	-	-	-	NP	71.91	0.00	93.03	21.12
04/23/98	-	-	-	-	-	-	-	-	NP	70.71	0.00	93.03	22.32
04/28/99	-	-	-	-	-	-	-	-	NP	69.68	0.00	93.03	23.35
04/11/00	-	-	-	-	-	-	-	-	NP	71.23	0.00	93.03	21.80
04/03/01	-	-	-	-	-	-	-	-	NP	72.64	0.00	93.03	20.39
04/01/02	-	-	-	-	-	-	-	-	NP	73.49	0.00	93.03	19.54
11/01/02	-	-	-	-	-	-	-	-	NP	74.38	0.00	93.03	18.65
04/01/03	-	-	-	-	-	-	-	-	NP	79.52	0.00	93.03	13.51
11/01/03	-	-	-	-	-	-	-	-	NP	74.94	0.00	93.03	18.09
03/30/04	-	-	-	-	-	-	-	-	NP	75.27	0.00	93.03	17.76
11/22/04	-	-	-	-	-	-	-	-	NP	76.18	0.00	93.03	16.85
03/29/05	-	-	-	-	-	-	-	-	NP	76.30	0.00	93.03	16.73
12/07/05	-	-	-	-	-	-	-	-	NP	76.53	0.00	93.03	16.50

Table 2 - Summary of Historical Gauging and Chemical Data

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DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
04/11/06	-	-	-	-	-	-	-	-	NP	76.40	0.00	93.03	16.63
12/05/06	-	-	-	-	-	-	-	-	NP	75.80	0.00	93.03	17.23
05/01/07	-	-	-	-	-	-	-	-	NP	75.43	0.00	93.03	17.60
09/25/07	-	-	-	-	-	-	-	-	NP	75.47	0.00	93.03	17.56
03/27/08	-	-	-	-	-	-	-	-	NP	75.84	0.00	93.03	17.19
09/22/08	-	-	-	-	-	-	-	-	NP	76.38	0.00	93.03	16.65
03/26/09	-	-	-	-	-	-	-	-	NP	76.88	0.00	93.03	16.15
10/12/09	-	-	-	-	-	-	-	-	NP	77.60	0.00	93.03	15.43
05/04/10	-	-	-	-	-	-	-	-	NP	78.23	0.00	93.03	14.80
10/06/10	-	-	-	-	-	-	-	-	NP	78.87	0.00	93.03	14.16
03/30/11	-	-	-	-	-	-	-	-	NP	79.15	0.00	93.03	13.88
09/28/11	-	-	-	-	-	-	-	-	NP	79.85	0.00	93.03	13.18
04/03/12	-	-	-	-	-	-	-	-	NP	78.30	0.00	93.03	14.73
09/26/12	-	-	-	-	-	-	-	-	NP	77.76	0.00	93.03	15.27
03/20/13	-	-	-	-	-	-	-	-	NP	77.58	0.00	93.03	15.46
09/23/13	-	-	-	-	-	-	-	-	NP	78.04	0.00	93.03	14.99
04/01/14	-	-	-	-	-	-	-	-	NP	78.62	0.00	93.03	14.41
WELL # GW-2	Area = OFF-SITE N												
11/01/87	-	-	19	22	<1.0	<1.0	-	-	-	-	-	-	-
06/08/89	-	-	-	-	-	-	-	-	NP	90.25	0.00	95.07	4.82
06/06/90	-	-	-	-	-	-	-	-	NP	95.95	0.00	95.07	-
11/01/93	-	-	-	-	-	-	-	-	NP	94.33	0.00	96.53	2.20
04/18/94	-	-	-	-	-	-	-	-	NP	90.50	0.00	96.53	6.03
04/25/95	-	-	-	-	-	-	-	-	NP	83.79	0.00	96.53	12.74
04/09/96	-	-	-	-	-	-	-	-	NP	82.92	0.00	96.53	13.61
04/30/97	-	-	-	-	-	-	-	-	NP	80.20	0.00	96.53	16.33
04/23/98	-	-	-	-	-	-	-	-	NP	79.73	0.00	96.53	16.80
04/28/99	-	-	-	-	-	-	-	-	NP	79.04	0.00	96.53	17.49
04/11/00	-	-	-	-	-	-	-	-	NP	81.24	0.00	96.53	15.29
04/03/01	-	-	-	-	-	-	-	-	NP	83.09	0.00	96.53	13.44
04/01/02	-	-	-	-	-	-	-	-	NP	85.26	0.00	96.53	11.25
11/01/02	-	-	-	-	-	-	-	-	NP	88.92	0.00	96.53	7.61
04/01/03	-	-	-	-	-	-	-	-	NP	87.48	0.00	96.53	9.05
11/01/03	-	-	-	-	-	-	-	-	NP	90.14	0.00	96.53	6.39
03/30/04	-	-	-	-	-	-	-	-	NP	89.80	0.00	96.53	6.73
11/22/04	-	-	-	-	-	-	-	-	NP	92.96	0.00	96.53	3.57
03/29/05	-	-	-	-	-	-	-	-	NP	91.65	0.00	96.53	4.88
12/07/05	-	-	-	-	-	-	-	-	NP	93.25	0.00	96.53	3.28
04/11/06	-	-	-	-	-	-	-	-	NP	90.87	0.00	96.53	5.66
12/05/06	-	-	-	-	-	-	-	-	NP	90.67	0.00	96.53	5.86
05/01/07	-	-	-	-	-	-	-	-	NP	88.51	0.00	96.53	8.02
09/25/07	-	-	-	-	-	-	-	-	NP	90.56	0.00	96.53	5.97
03/27/08	-	-	-	-	-	-	-	-	NP	90.80	0.00	96.53	5.73
09/22/08	-	-	-	-	-	-	-	-	NP	93.30	0.00	96.53	3.23
03/26/09	-	-	-	-	-	-	-	-	NP	93.50	0.00	96.53	3.03
10/12/09	-	-	-	-	-	-	-	-	NP	96.09	0.00	96.53	0.44
04/03/12	-	-	-	-	-	-	-	-	NP	91.22	0.00	96.53	5.31
09/26/12	-	-	-	-	-	-	-	-	NP	91.98	0.00	96.53	4.55
03/20/13	-	-	-	-	-	-	-	-	NP	91.10	0.00	96.53	5.43
09/23/13	-	-	-	-	-	-	-	-	NP	93.90	0.00	96.53	2.63
04/01/14	-	-	-	-	-	-	-	-	NP	94.58	0.00	96.53	1.95
WELL # GW-3													
11/01/87	-	-	5,900	160	880	2,200	-	-	-	-	-	-	-
06/08/89	-	-	-	-	-	-	-	-	NP	83.76	0.00	94.21	10.45
01/07/91	-	-	-	-	-	-	-	-	NP	88.42	0.00	94.21	5.79
02/19/91	-	-	-	-	-	-	-	-	NP	89.13	0.00	94.21	5.08
11/01/93	-	-	-	-	-	-	-	-	NP	87.25	0.00	94.21	6.96
04/18/94	-	-	-	-	-	-	-	-	NP	83.17	0.00	94.21	11.04
04/25/95	-	-	-	-	-	-	-	-	NP	81.62	0.00	94.21	12.59
04/09/96	-	-	-	-	-	-	-	-	NP	77.73	0.00	94.21	16.48
04/30/97	-	-	-	-	-	-	-	-	NP	75.13	0.00	94.21	19.08
04/23/98	-	-	-	-	-	-	-	-	NP	74.26	0.00	94.21	19.95
04/28/99	-	-	-	-	-	-	-	-	NP	72.96	0.00	94.21	21.25
04/11/00	-	-	-	-	-	-	-	-	NP	74.66	0.00	94.21	19.55
04/03/01	-	-	-	-	-	-	-	-	NP	76.20	0.00	94.21	18.01
04/01/02	-	-	-	-	-	-	-	-	76.63	76.64	0.01	97.21	20.58
08/07/02	2.1	-	9.8	6.7	5.3	11	-	-	-	-	-	-	-
11/01/02	-	-	-	-	-	-	-	-	NP	79.57	0.00	97.21	17.64
04/01/03	-	-	-	-	-	-	-	-	NP	79.50	0.00	97.21	17.71
11/01/03	-	-	-	-	-	-	-	-	NP	81.06	0.00	97.21	16.15
03/30/04	-	-	-	-	-	-	-	-	NP	81.26	0.00	97.21	15.95
11/22/04	-	-	-	-	-	-	-	-	NP	83.55	0.00	97.21	13.66
03/29/05	-	-	-	-	-	-	-	-	NP	83.22	0.00	97.21	13.99
12/07/05	-	-	-	-	-	-	-	-	NP	84.00	0.00	97.21	13.21
04/11/06	-	-	-	-	-	-	-	-	NP	83.23	0.00	97.21	13.98
12/05/06	-	-	-	-	-	-	-	-	NP	82.48	0.00	97.21	14.73
05/01/07	-	-	-	-	-	-	-	-	NP	81.29	0.00	97.21	15.92
09/25/07	NO ACCESS	-	-	-	-	-	-	-	NO ACCESS	-	-	97.21	-
03/27/08	-	-	-	-	-	-	-	-	NP	82.31	0.00	97.21	14.90
09/22/08	-	-	-	-	-	-	-	-	NP	83.51	0.00	97.21	13.70
12/10/08	WELL DESTROYED												

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT (feet)	DEPTH TO GROUNDWATER (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)					
WELL # MEW													
09/20/85	-	-	-	-	-	-	-	-	19.80	19.90	0.10	85.50	65.68
08/28/86	-	-	-	-	-	-	-	-	18.84	18.87	0.03	85.50	66.65
02/26/87	-	-	-	-	-	-	-	-	21.11	21.38	0.27	85.50	64.32
02/08/88	-	-	-	-	-	-	-	-	19.01	19.07	0.06	85.50	66.48
03/29/89	-	-	-	-	-	-	-	-	NP	18.67	0.00	85.50	66.83
01/10/90	-	-	-	-	-	-	-	-	20.79	20.85	0.06	84.78	63.98
02/19/91	-	-	-	-	-	-	-	-	NP	20.88	0.00	84.78	63.90
03/02/92	-	-	-	-	-	-	-	-	NP	16.83	0.00	84.90	68.07
02/27/93	-	-	-	-	-	-	-	-	NP	11.85	0.00	84.90	73.05
04/18/94	-	-	-	-	-	-	-	-	NP	18.67	0.00	84.90	66.23
04/25/95	-	-	-	-	-	-	-	-	DRY	-	-	84.90	--
04/08/96	-	-	-	-	-	-	-	-	NP	18.29	0.00	84.90	66.61
04/29/97	-	-	-	-	-	-	-	-	NP	18.43	0.00	84.90	66.47
04/23/98	-	-	-	-	-	-	-	-	NP	12.73	0.00	84.90	72.17
04/27/99	-	-	-	-	-	-	-	-	NP	18.87	0.00	84.90	66.03
04/12/00	-	-	-	-	-	-	-	-	NP	20.77	0.00	84.90	64.13
11/08/00	-	-	-	-	-	-	-	-	NP	21.89	0.00	84.90	63.01
04/04/01	-	-	-	-	-	-	-	-	NP	20.16	0.00	84.90	64.74
11/01/02	-	-	-	-	-	-	-	-	DRY	-	-	84.90	-
04/01/03	-	-	-	-	-	-	-	-	NP	20.50	-	84.90	64.40
11/01/03	-	-	-	-	-	-	-	-	DRY	-	-	84.90	-
03/30/04	-	-	-	-	-	-	-	-	DRY	-	-	84.90	-
11/22/04	-	-	-	-	-	-	-	-	DRY	-	-	84.90	-
03/29/05	-	-	-	-	-	-	-	-	-	17.90	-	84.90	67.00
12/07/05	-	-	-	-	-	-	-	-	DRY	-	-	84.90	-
04/11/06	-	-	-	-	-	-	-	-	DRY	-	-	84.90	-
12/04/06	-	-	-	-	-	-	-	-	DRY	-	-	84.90	-
05/01/07	-	-	-	-	-	-	-	-	DRY	-	-	84.90	-
09/27/07	-	-	-	-	-	-	-	-	NP	9.70	-	84.90	-
	WELL DESTROYED												
WELL # MW-2													
10/28/87	-	-	-	-	-	-	-	-	NP	82.23	0.00	99.54	17.31
02/08/88	-	-	-	-	-	-	-	-	NP	81.70	0.00	99.54	17.84
03/29/89	-	-	-	-	-	-	-	-	NP	82.50	0.00	99.54	17.04
03/26/90	-	-	-	-	-	-	-	-	NP	84.77	0.00	99.34	14.57
02/19/91	-	-	-	-	-	-	-	-	NP	86.00	0.00	99.34	13.34
03/02/92	-	-	-	-	-	-	-	-	NP	85.78	0.00	99.30	13.52
11/20/92	-	-	-	-	-	-	-	-	NP	86.33	0.00	99.30	12.97
02/27/93	-	-	-	-	-	-	-	-	NP	85.66	0.00	99.30	13.64
05/20/93	-	-	32	<1.0	0.7	2.0	-	-	NP	85.85	0.00	99.30	13.45
02/05/94	-	-	37	<1.0	<1.0	1.0	-	-	NP	84.56	0.00	99.30	14.74
04/18/94	-	-	4.2	<1.0	<1.0	<1.0	-	-	NP	83.04	0.00	99.30	16.26
11/05/94	-	-	10	<1.0	1.3	<3.0	-	-	NP	82.77	0.00	99.30	16.53
04/20/95	-	-	27	<1.0	12	8.1	-	-	NP	79.69	0.00	99.30	19.61
11/06/95	-	-	1.7	<0.5	12	10	-	-	NP	80.29	0.00	99.30	19.01
04/09/96	-	-	8.0	<0.5	1.5	2.3	0.7	-	NP	77.34	0.00	99.30	21.96
11/11/96	-	-	0.8	<1.0	<1.0	<1.0	-	-	NP	77.38	0.00	99.30	21.92
04/30/97	-	-	<0.5	<0.5	<0.5	<0.5	-	-	NP	75.12	0.00	99.30	24.18
11/03/97	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	NP	76.50	0.00	99.30	22.80
04/20/98	-	-	<0.5	<0.5	<0.5	<0.5	-	-	NP	76.32	0.00	99.30	23.98
11/04/98	-	-	<0.5	<0.5	<0.5	<0.5	-	-	NP	76.00	0.00	99.30	23.30
04/27/99	-	-	<0.5	<0.5	<0.5	<0.5	-	-	NP	74.61	0.00	99.30	24.69
	WELL DESTROYED												
WELL # MW-2A Area = STF S of Foster													
11/01/03	<0.1	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	94.95	0.00	101.71	6.76
03/30/04	<0.1	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	92.58	0.00	101.71	9.13
11/22/04	<0.1	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	97.66	0.00	101.71	4.05
03/29/05	<0.1	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	94.27	0.00	101.71	7.44
12/08/05	<0.05	-	<1.0	<5.0	<5.0	<5.0	<1.0	-	NP	96.35	0.00	101.71	5.36
03/29/06	<0.006	-	<0.3	<0.1	<0.2	<0.3	<0.6	-	NP	91.55	0.00	101.71	10.16
12/05/06	<0.0056	-	<0.32	3.5 J	<0.24	1.7 J	<0.63	-	NP	93.10	0.00	101.71	8.61
04/30/07	<0.056	0.33	<0.18	<0.24	<0.21	<0.45	<0.19	-	NP	89.50	0.00	101.71	12.21
09/26/07	<0.0056	0.11	<0.18	<0.24	<0.21	<0.45	<0.19	176	NP	94.57	0.00	101.71	7.14
03/27/08	-	-	-	-	-	-	-	-	NP	94.22	0.00	101.71	7.49
04/02/08	-	-	-	-	-	-	-	-	NP	94.22	0.00	101.71	7.49
04/22/08	<0.0066	<0.032	<0.18	<0.24	<0.21	<0.45	<0.19	61	NP	94.27	0.00	101.71	7.44
09/24/08	-	-	-	-	-	-	-	-	NP	98.42	0.00	101.71	3.29
03/31/09	<0.0066	<0.032	1.3	<0.24	<0.21	<0.45	<0.19	<5.2	NP	97.39	0.00	101.71	4.32
09/30/09	-	-	-	-	-	-	-	-	DRY	-	-	101.71	-
05/05/10	-	-	-	-	-	-	-	-	DRY	-	-	101.71	-
10/07/10	-	-	-	-	-	-	-	-	DRY	-	-	101.71	-
03/31/11	<0.0066	0.2	<0.18	<0.24	<0.21	<0.45	<0.19	118	NP	97.22	0.00	101.71	4.49
09/29/11	<0.0066	<0.04	<0.18	<0.24	<0.21	<0.45	<0.19	150	NP	96.27	0.00	101.71	5.44
04/04/12	<0.0066	0.19	<0.18	<0.24	<0.21	<0.45	<0.19	210	NP	92.65	0.00	101.71	9.06
09/27/12	<0.0066	0.11	<0.18	<0.24	<0.21	<0.45	<0.19	140	NP	95.90	0.00	101.71	5.81
03/21/13	<0.0066	0.22	<0.18	<0.24	<0.21	<0.45	<0.19	59	NP	94.85	0.00	101.71	6.86
09/26/13	-	-	-	-	-	-	-	-	DRY	-	-	101.71	-
04/03/14	-	-	-	-	-	-	-	-	DRY	-	-	101.71	-
WELL # MW-3													
10/28/87	-	-	-	-	-	-	-	-	NP	80.41	0.00	98.51	18.10
02/08/88	-	-	-	-	-	-	-	-	NP	80.47	0.00	98.51	18.04
03/29/89	-	-	-	-	-	-	-	-	NP	81.38	0.00	98.51	17.13

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
03/26/90	-	-	-	-	-	-	-	-	NP	82.97	0.00	98.35	15.38
02/19/91	-	-	-	-	-	-	-	-	NP	84.60	0.00	98.35	13.75
03/02/92	-	-	-	-	-	-	-	-	NP	84.76	0.00	98.32	13.56
11/20/92	-	-	-	-	-	-	-	-	NP	84.97	0.00	98.32	13.35
02/27/93	-	-	-	-	-	-	-	-	NP	84.52	0.00	98.32	13.80
11/01/93	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	83.35	0.00	98.32	14.97
02/04/94	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	82.69	0.00	98.32	15.63
04/18/94	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	82.92	0.00	98.32	15.40
11/05/94	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	81.38	0.00	98.32	16.94
04/20/95	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	78.67	0.00	98.32	19.65
11/06/95	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	77.07	0.00	98.32	21.25
04/11/96	-	-	1.3	<1.0	<1.0	<1.0	<0.5	-	NP	75.94	0.00	98.32	22.38
11/11/96	-	-	0.5	<1.0	<1.0	<1.0	-	-	NP	74.58	0.00	98.32	23.74
04/29/97	-	-	1.3	<1.0	<1.0	<1.0	-	-	NP	73.63	0.00	98.32	24.69
11/03/97	-	-	1.8	<1.0	<1.0	<1.0	<0.5	-	NP	73.20	0.00	98.32	25.12
04/20/98	-	-	0.5	<1.0	<1.0	<1.0	-	-	NP	72.12	0.00	98.32	26.20
11/04/98	-	-	<0.6	<1.0	<1.0	<1.0	<0.5	-	NP	71.25	0.00	98.32	27.07
04/27/99	-	-	4.7	<1.0	<1.0	<1.0			NP	70.76	0.00	98.32	27.56
	WELL DESTROYED												
WELL # MWW													
09/20/85	-	-	-	-	-	-	-	-	21.00	21.10	0.10	86.00	64.98
08/28/86	-	-	-	-	-	-	-	-	20.63	20.81	0.18	86.00	65.33
02/26/87	-	-	-	-	-	-	-	-	20.92	20.99	0.07	86.00	65.06
02/08/88	-	-	-	-	-	-	-	-	21.30	21.39	0.09	86.00	64.68
03/29/89	-	-	-	-	-	-	-	-	NP	22.25	0.00	86.00	63.75
01/10/90	-	-	-	-	-	-	-	-	22.71	22.97	0.26	85.23	62.46
02/19/91	-	-	-	-	-	-	-	-	22.67	24.10	1.43	85.23	62.21
03/02/92	-	-	-	-	-	-	-	-	21.42	22.25	0.83	85.24	63.62
02/27/93	-	-	-	-	-	-	-	-	NP	11.70	0.00	85.24	73.54
04/18/94	-	-	-	-	-	-	-	-	23.25	23.33	0.08	85.24	61.97
11/05/94	-	-	-	-	-	-	-	-	23.25	23.33	0.08	85.24	61.97
04/25/95	-	-	-	-	-	-	-	-	DRY	-	-	85.24	--
04/08/96	-	-	-	-	-	-	-	-	20.81	20.96	0.15	85.24	64.39
04/29/97	-	-	-	-	-	-	-	-	21.16	21.35	0.19	85.24	64.03
04/23/98	-	-	-	-	-	-	-	-	18.89	18.90	0.01	85.24	66.36
04/27/99	-	-	-	-	-	-	-	-	19.90	20.00	0.10	85.24	65.32
04/12/00	-	-	-	-	-	-	-	-	20.53	20.61	0.08	85.24	64.69
04/04/01	-	-	-	-	-	-	-	-	NP	19.94	0.00	85.24	65.30
11/01/02	-	-	-	-	-	-	-	-	22.37	22.44	0.07	85.24	62.86
04/01/03	-	-	-	-	-	-	-	-	NP	20.18	0.00	85.24	65.06
11/01/03	-	-	-	-	-	-	-	-	NP	21.78	0.00	85.24	63.46
03/30/04	-	-	-	-	-	-	-	-	DRY	-	-	85.24	-
11/22/04	-	-	-	-	-	-	-	-	DRY	-	-	85.24	-
03/29/05	-	-	-	-	-	-	-	-	-	17.70	-	85.24	67.54
12/07/05	-	-	-	-	-	-	-	-	-	19.80	-	85.24	65.44
04/11/06	-	-	-	-	-	-	-	-	NP	18.03	0.00	85.24	67.21
12/04/06	-	-	-	-	-	-	-	-	NP	21.02	0.00	85.24	64.22
05/01/07	-	-	-	-	-	-	-	-	DRY	-	-	85.24	-
09/27/07	-	-	-	-	-	-	-	-	NP	21.96	-	85.24	63.28
	WELL DESTROYED												
WELL # MYTNN Area = OFF-SITE S													
06/19/86	-	-	-	-	-	-	-	-	20.49	21.42	0.93	83.20	62.48
02/26/87	-	-	-	-	-	-	-	-	21.36	21.50	0.14	83.20	61.81
02/08/88	-	-	-	-	-	-	-	-	22.14	22.38	0.24	83.20	61.00
03/29/89	-	-	-	-	-	-	-	-	22.25	24.63	2.38	83.20	60.37
04/11/90	-	-	-	-	-	-	-	-	22.85	24.46	1.61	83.27	60.03
02/19/91	-	-	-	-	-	-	-	-	23.04	24.60	1.56	83.27	59.85
03/02/92	-	-	-	-	-	-	-	-	24.00	24.33	0.33	83.26	59.18
02/27/93	-	-	-	-	-	-	-	-	22.90	23.23	0.33	83.26	60.28
04/18/94	-	-	-	-	-	-	-	-	DRY	-	-	83.26	-
04/24/95	-	-	-	-	-	-	-	-	DRY	-	-	83.26	-
04/08/96	-	-	-	-	-	-	-	-	22.53	22.69	0.08	83.26	60.62
04/28/97	-	-	-	-	-	-	-	-	22.42	22.50	0.08	83.26	60.82
04/22/98	-	-	-	-	-	-	-	-	21.31	22.17	0.86	83.26	61.74
11/02/98	-	-	-	-	-	-	-	-	20.40	21.39	0.99	83.26	62.62
04/29/99	-	-	-	-	-	-	-	-	20.86	21.97	1.11	83.26	62.13
04/12/00	-	-	-	-	-	-	-	-	21.89	23.43	1.54	83.26	60.99
04/02/01	-	-	-	-	-	-	-	-	22.19	22.27	0.08	83.26	61.05
04/01/02	-	-	-	-	-	-	-	-	22.85	23.21	0.36	83.26	60.32
08/07/02	100	-	8700	12,000	2,800	19,000	-	-	-	-	-	-	-
11/01/02	-	-	-	-	-	-	-	-	23.34	23.45	0.11	83.26	59.89
04/01/03	-	-	-	-	-	-	-	-	23.03	23.16	0.13	83.26	60.20
11/01/03	-	-	-	-	-	-	-	-	22.88	22.76	0.12	83.26	60.57
03/30/04	-	-	-	-	-	-	-	-	22.96	23.02	0.08	83.26	60.29
11/22/04	-	-	-	-	-	-	-	-	23.25	23.29	0.04	83.26	60.00
03/29/05	-	-	-	-	-	-	-	-	-	21.25	0.00	83.26	62.01
12/29/05	-	-	-	-	-	-	-	-	20.82	21.08	0.26	83.26	62.38
04/11/06	-	-	-	-	-	-	-	-	21.31	21.61	0.30	83.26	61.88
12/04/06	-	-	-	-	-	-	-	-	21.95	22.25	0.30	83.26	61.24
05/01/07	-	-	-	-	-	-	-	-	22.43	22.73	0.30	83.26	60.76
09/26/07	-	-	-	-	-	-	-	-	22.75	23.15	0.40	83.26	60.41
03/27/08	-	-	-	-	-	-	-	-	22.53	22.83	0.30	83.26	60.66
09/22/08	-	-	-	-	-	-	-	-	22.49	22.78	0.29	83.26	60.70
03/26/09	-	-	-	-	-	-	-	-	22.54	22.79	0.25	83.26	60.66
10/12/09	-	-	-	-	-	-	-	-	23.14	23.53	0.39	83.26	60.02

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
05/04/10	-	-	-	-	-	-	-	-	22.73	22.99	0.26	83.26	60.47
10/06/10	-	-	-	-	-	-	-	-	23.00	23.34	0.34	83.26	60.18
03/30/11	-	-	-	-	-	-	-	-	22.09	22.24	0.15	83.26	61.13
09/28/11	-	-	-	-	-	-	-	-	21.96	22.21	0.25	83.26	61.24
04/03/12	-	-	-	-	-	-	-	-	22.62	23.01	0.39	83.26	60.54
09/28/12	-	-	-	-	-	-	-	-	23.15	23.52	0.37	83.26	60.02
03/20/13	-	-	-	-	-	-	-	-	23.54	23.82	0.28	83.26	59.65
09/23/13	-	-	-	-	-	-	-	-	23.90	24.13	0.23	83.26	59.30
04/01/14	-	-	-	-	-	-	-	-	24.08	24.23	0.15	83.26	59.14
WELL # NW-1													
11/09/87	-	-	-	-	-	-	-	-	NP	99.89	0.00	106.36	6.47
02/25/88	-	-	-	-	-	-	-	-	NP	99.02	0.00	106.36	7.34
05/26/88	-	-	-	-	-	-	-	-	NP	98.70	0.00	106.36	7.66
08/28/90	-	-	-	-	-	-	-	-	NP	106.40	0.00	106.36	-
02/19/91	-	-	-	-	-	-	-	-	NP	106.91	0.00	106.36	-
08/22/92	-	-	-	-	-	-	-	-	NP	107.76	0.00	106.36	-
11/20/92	-	-	-	-	-	-	-	-	NP	106.33	0.00	106.36	-
02/27/93	-	-	-	-	-	-	-	-	NP	106.75	0.00	106.36	-
WELL # NW-2													
11/09/87	-	-	-	-	-	-	-	-	NP	98.80	0.00	106.25	7.45
02/25/88	-	-	-	-	-	-	-	-	NP	98.31	0.00	106.25	7.94
05/26/88	-	-	-	-	-	-	-	-	NP	98.05	0.00	106.25	8.20
08/28/90	-	-	-	-	-	-	-	-	NP	104.35	0.00	106.25	1.90
02/19/91	-	-	-	-	-	-	-	-	NP	105.36	0.00	106.25	0.89
09/11/92	-	-	-	-	-	-	-	-	NP	106.30	0.00	106.25	-
11/20/92	-	-	-	-	-	-	-	-	NP	105.42	0.00	106.25	-
02/27/93	-	-	-	-	-	-	-	-	NP	105.75	0.00	106.25	0.50
11/09/87	-	-	-	-	-	-	-	-	NP	99.76	0.00	105.96	6.20
WELL # NW-3 Area = OFF-SITE N													
02/25/88	-	-	-	-	-	-	-	-	NP	98.83	0.00	105.96	7.13
08/28/90	-	-	-	-	-	-	-	-	NP	106.20	0.00	105.96	-
02/19/91	-	-	-	-	-	-	-	-	NP	106.84	0.00	105.96	-
08/22/92	-	-	-	-	-	-	-	-	NP	107.45	0.00	105.96	-
11/20/92	-	-	-	-	-	-	-	-	NP	107.92	0.00	105.96	-
02/27/93	-	-	-	-	-	-	-	-	NP	106.50	0.00	105.96	-
04/01/02	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	95.86	0.00	106.96	10.10
08/07/02	0.24	-	1.7	5.7	1.4	7.4		-	-	-	-	-	-
11/01/02	<1.0	-	<1.0	<1.0	<1.0	<1.0	<0.5	-	NP	98.76	0.00	105.96	7.20
04/01/03	-	-	<1.0	<1.0	<1.0	<1.0	<0.5	-	NP	97.21	0.00	105.96	8.75
11/01/03	<0.1	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	100.30	0.00	105.96	5.66
03/30/04	-	-	-	-	-	-	-	-	NP	100.33	0.00	105.96	5.63
09/27/04	<0.01	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	102.18	0.00	105.96	3.78
11/22/04	<0.1	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	103.50	0.00	105.96	2.46
03/29/05	<0.1	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	NP	102.30	0.00	105.96	3.66
06/28/05	<0.1	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	-	-	-	-
12/07/05	-	-	-	-	-	-	-	-	NP	103.62	0.00	105.96	2.34
04/11/06	-	-	-	-	-	-	-	-	NP	102.07	0.00	105.96	3.89
12/05/06	-	-	-	-	-	-	-	-	NP	101.27	0.00	105.96	4.69
06/01/07	-	-	-	-	-	-	-	-	NP	99.38	0.00	105.96	6.58
09/25/07	-	-	-	-	-	-	-	-	NP	100.54	0.00	105.96	5.42
03/27/08	-	-	-	-	-	-	-	-	NP	101.16	0.00	105.96	4.80
09/22/08	-	-	-	-	-	-	-	-	NP	102.98	0.00	105.96	2.98
03/26/09	-	-	-	-	-	-	-	-	NP	103.70	0.00	105.96	2.28
10/12/09	-	-	-	-	-	-	-	-	NP	105.65	0.00	105.96	0.31
05/04/10	-	-	-	-	-	-	-	-	NP	105.62	0.00	105.96	0.34
10/06/10	-	-	-	-	-	-	-	-	NP	106.68	0.00	105.96	-0.72
03/30/11	-	-	-	-	-	-	-	-	NO ACCESS	-	-	105.96	-
09/28/11	-	-	-	-	-	-	-	-	NP	104.28	0.00	105.96	1.68
04/03/12	-	-	-	-	-	-	-	-	NP	102.12	0.00	105.96	3.84
09/28/12	-	-	-	-	-	-	-	-	NO ACCESS	-	-	105.96	-
03/20/13	-	-	-	-	-	-	-	-	NO ACCESS	-	-	105.96	-
09/23/13	-	-	-	-	-	-	-	-	NO ACCESS	-	-	105.96	-
04/01/14	-	-	-	-	-	-	-	-	NO ACCESS	-	-	105.96	-
WELL # NW-4													
11/09/87	-	-	-	-	-	-	-	-	NP	95.64	0.00	102.56	6.92
02/25/88	-	-	-	-	-	-	-	-	NP	94.47	0.00	102.56	8.09
08/28/90	-	-	-	-	-	-	-	-	NP	103.60	0.00	102.56	
09/11/92	-	-	-	-	-	-	-	-	NP	105.00	0.00	102.56	
02/27/91	-	-	-	-	-	-	-	-	NP	102.20	0.00	102.56	0.36
05/13/93	-	-	-	-	-	-	-	-	NP	101.75	0.00	102.56	0.81
WELL # NW-5													
11/09/87	-	-	-	-	-	-	-	-	NP	94.08	0.00	101.13	7.05
02/25/88	-	-	-	-	-	-	-	-	NP	93.64	0.00	101.13	7.59
WELL # OW-1													
02/19/91	-	-	-	-	-	-	-	-	9.85	17.08	7.43	85.18	73.71
11/20/91	-	-	-	-	-	-	-	-	18.92	21.46	2.84	85.09	65.77
03/02/92	-	-	-	-	-	-	-	-	18.46	21.44	2.98	85.09	65.90
02/27/93	-	-	-	-	-	-	-	-	17.66	21.18	3.52	85.09	66.57
04/18/94	-	-	-	-	-	-	-	-	16.33	18.77	2.44	85.09	68.16

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
05/02/95	-	-	-	-	-	-	-	-	8.25	ND	-8.25	85.09	--
04/11/96	-	-	-	-	-	-	-	-	NP	7.76	0.00	85.09	77.31
05/01/97	-	-	-	-	-	-	-	-	NP	7.01	0.00	85.09	78.08
04/21/98	-	-	-	-	-	-	-	-	NP	7.01	0.00	85.09	78.08
04/27/99	-	-	-	-	-	-	-	-	NP	9.07	0.00	85.09	76.02
04/10/00	-	-	-	-	-	-	-	-	NP	7.94	0.00	85.09	77.15
11/12/01	-	-	-	-	-	-	-	-	10.70	10.93	0.23	85.09	74.33
	WELL DESTROYED												
WELL # OW-2	Area = OFF-SITE S									= 2 Inches			
02/19/91	-	-	-	-	-	-	-	-	19.71	21.23	1.52	85.22	65.14
03/02/92	-	-	-	-	-	-	-	-	7.60	9.00	1.40	85.15	77.21
05/20/93	-	-	-	-	-	-	-	-	NP	9.29	0.00	85.15	75.86
04/18/94	-	-	-	-	-	-	-	-	NP	8.83	0.00	85.15	76.32
04/21/95	-	-	-	-	-	-	-	-	17.26	19.52	2.24	85.15	67.32
04/11/96	-	-	-	-	-	-	-	-	17.11	18.89	1.78	85.15	67.60
04/29/97	-	-	-	-	-	-	-	-	17.17	18.25	1.08	85.15	67.72
04/23/98	-	-	-	-	-	-	-	-	15.24	17.92	2.68	85.15	69.25
04/27/99	-	-	-	-	-	-	-	-	16.01	17.94	1.93	85.15	68.67
04/12/00	-	-	-	-	-	-	-	-	17.21	17.73	0.52	85.15	67.81
04/02/01	-	-	-	-	-	-	-	-	16.73	17.67	0.94	85.15	68.19
04/01/02	-	-	-	-	-	-	-	-	17.87	17.98	0.11	85.15	67.25
11/01/02	-	-	-	-	-	-	-	-	18.34	18.40	0.06	85.15	66.80
04/01/03	-	-	-	-	-	-	-	-	-	17.19	0.00	85.15	67.96
11/01/03	-	-	-	-	-	-	-	-	17.14	17.61	0.47	85.15	67.89
03/30/04	-	-	-	-	-	-	-	-	20.18	20.82	0.64	85.15	64.81
11/22/04	-	-	-	-	-	-	-	-	-	19.50	0.00	note 1	-
03/29/05	-	-	-	-	-	-	-	-	-	18.02	0.00	note 1	-
12/20/05	-	-	-	-	-	-	-	-	18.80	18.82	0.02	note 1	-
04/11/06	-	-	-	-	-	-	-	-	18.98	19.01	0.03	note 1	-
12/04/06	-	-	-	-	-	-	-	-	19.71	19.78	0.07	-	-
05/01/07	-	-	-	-	-	-	-	-	20.17	20.18	0.01	85.15	64.98
09/27/07	-	-	-	-	-	-	-	-	20.68	20.70	0.02	85.15	64.47
03/27/08	-	-	-	-	-	-	-	-	NP	20.72	0.00	85.15	64.43
09/22/08	-	-	-	-	-	-	-	-	NP	21.08	0.00	85.15	64.07
03/26/09	-	-	-	-	-	-	-	-	21.06	21.83	0.77	85.15	63.90
10/12/09	-	-	-	-	-	-	-	-	21.26	22.80	1.54	85.15	63.61
05/04/10	-	-	-	-	-	-	-	-	20.11	21.55	1.44	85.15	64.69
10/06/10	-	-	-	-	-	-	-	-	20.02	20.81	0.79	85.15	64.94
03/30/11	-	-	-	-	-	-	-	-	19.65	19.82	0.17	87.14	67.45
09/28/11	-	-	-	-	-	-	-	-	NP	19.75	0.00	87.14	67.39
04/03/12	-	-	-	-	-	-	-	-	NP	20.15	0.00	87.14	66.99
09/26/12	-	-	-	-	-	-	-	-	NP	20.45	0.00	87.14	66.69
03/20/13	-	-	-	-	-	-	-	-	NP	20.45	0.00	87.14	66.69
09/26/13	-	-	-	-	-	-	-	-	FILM	20.85	0.00	87.14	66.29
04/02/14	-	-	-	-	-	-	-	-	20.81	21.71	0.90	87.14	66.11
WELL # OW-3	Area = OFF-SITE S									= 2 Inches			
02/19/91	-	-	-	-	-	-	-	-	23.43	26.13	2.70	88.08	63.99
03/02/92	-	-	-	-	-	-	-	-	23.42	26.00	2.58	87.78	63.73
02/27/93	-	-	-	-	-	-	-	-	22.78	24.00	1.22	87.78	64.70
04/18/94	-	-	-	-	-	-	-	-	22.60	24.41	1.81	87.78	64.74
11/05/94	-	-	-	-	-	-	-	-	22.93	29.61	6.68	87.78	63.21
04/24/95	-	-	-	-	-	-	-	-	22.37	23.98	1.61	87.78	65.02
04/11/96	-	-	-	-	-	-	-	-	22.43	23.88	1.45	87.78	64.99
04/28/97	-	-	-	-	-	-	-	-	21.92	23.58	1.66	87.78	65.45
04/20/98	-	-	-	-	-	-	-	-	19.51	22.76	3.25	87.78	67.47
04/27/99	-	-	-	-	-	-	-	-	21.65	23.46	1.81	87.78	65.69
04/10/00	-	-	-	-	-	-	-	-	22.33	23.34	1.01	87.78	65.20
04/02/01	-	-	-	-	-	-	-	-	21.66	22.65	1.09	87.78	65.95
04/01/02	-	-	-	-	-	-	-	-	-	22.76	0.00	87.78	65.02
11/01/02	-	-	-	-	-	-	-	-	23.30	23.30	0.00	87.78	64.48
04/01/03	-	-	-	-	-	-	-	-	22.25	22.60	0.35	87.78	65.44
11/01/03	-	-	-	-	-	-	-	-	21.98	22.68	0.70	87.78	66.63
03/30/04	-	-	-	-	-	-	-	-	23.30	23.83	0.53	87.78	64.35
11/22/04	-	-	-	-	-	-	-	-	23.06	23.12	0.06	(1)	-
03/29/05	-	-	-	-	-	-	-	-	21.20	23.15	1.95	(1)	-
12/13/05	-	-	-	-	-	-	-	-	22.13	22.50	0.37	(1)	-
04/11/06	-	-	-	-	-	-	-	-	22.55	22.68	0.13	(1)	-
12/04/06	-	-	-	-	-	-	-	-	NP	22.55	0.00	-	-
05/01/07	-	-	-	-	-	-	-	-	NP	23.11	0.00	87.78	64.67
09/27/07	-	-	-	-	-	-	-	-	NP	23.12	0.00	87.78	64.66
03/27/08	-	-	-	-	-	-	-	-	NP	23.54	0.00	87.78	64.24
09/22/08	-	-	-	-	-	-	-	-	NP	23.79	0.00	87.78	63.99
03/26/09	-	-	-	-	-	-	-	-	23.80	23.89	0.09	87.78	63.98
10/12/09	-	-	-	-	-	-	-	-	23.85	25.43	1.78	87.78	63.69
05/04/10	-	-	-	-	-	-	-	-	23.48	24.63	1.15	87.78	64.02
10/06/10	-	-	-	-	-	-	-	-	23.60	25.23	1.63	87.78	63.78
03/30/11	-	-	-	-	-	-	-	-	NP	23.30	0.00	87.78	64.48
09/28/11	-	-	-	-	-	-	-	-	NP	23.43	0.00	87.78	64.35
04/03/12	-	-	-	-	-	-	-	-	NO ACCESS	-	-	87.78	-
09/26/12	-	-	-	-	-	-	-	-	23.85	25.40	1.55	87.78	63.55

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	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
03/20/13	-	-	-	-	-	-	-	-	24.05	25.33	1.28	87.78	63.42
09/25/13	-	-	-	-	-	-	-	-	24.13	25.98	1.85	87.78	63.20
04/02/14	-	-	-	-	-	-	-	-	24.25	26.25	2.00	87.78	63.04
WELL # OW-4													
02/19/91	-	-	-	-	-	-	-	-	23.25	26.08	2.83	87.87	63.93
03/02/92	-	-	-	-	-	-	-	-	23.25	25.88	2.63	87.80	63.91
02/27/93	-	-	-	-	-	-	-	-	22.68	23.92	1.24	87.80	64.82
04/18/94	-	-	-	-	-	-	-	-	22.80	24.15	1.65	87.80	64.90
04/24/95	-	-	-	-	-	-	-	-	22.32	23.93	1.61	87.80	65.09
04/11/96	-	-	-	-	-	-	-	-	22.34	23.35	1.01	87.80	65.21
04/28/97	-	-	-	-	-	-	-	-	21.92	22.71	0.79	87.80	65.69
04/27/99	-	-	-	-	-	-	-	-	21.55	22.77	1.22	87.80	65.95
04/10/00	-	-	-	-	-	-	-	-	22.11	23.20	1.09	87.80	65.42
04/02/01	-	-	-	-	-	-	-	-	21.42	22.09	0.67	87.80	66.22
04/01/02	-	-	-	-	-	-	-	-	-	22.48	0.00	87.80	65.32
11/01/02	-	-	-	-	-	-	-	-	-	-	-	87.80	-
04/01/03	-	-	-	-	-	-	-	-	damaged	-	-	87.80	-
11/01/03	-	-	-	-	-	-	-	-	damaged	-	-	87.80	-
	WELL DESTROYED												
WELL # P-1	Area = STF S of Foster												
09/24/85	-	-	-	-	-	-	-	-	NP	28.00	0.00	89.30	61.30
06/20/86	-	-	-	-	-	-	-	-	18.32	35.76	17.44	89.30	66.71
02/26/87	-	-	-	-	-	-	-	-	19.89	36.52	16.63	89.30	65.34
02/08/88	-	-	-	-	-	-	-	-	19.99	35.84	15.85	89.30	65.43
03/29/89	-	-	-	-	-	-	-	-	20.98	35.70	14.72	89.30	64.71
01/10/90	-	-	-	-	-	-	-	-	23.99	35.79	11.80	86.70	59.82
02/19/91	-	-	-	-	-	-	-	-	24.78	36.25	11.47	86.70	59.11
11/20/91	-	-	-	-	-	-	-	-	27.70	33.08	5.38	86.66	57.64
03/02/92	-	-	-	-	-	-	-	-	24.83	35.19	10.36	86.66	59.29
02/27/93	-	-	-	-	-	-	-	-	21.17	21.95	0.78	86.66	65.30
04/18/94	-	-	-	-	-	-	-	-	21.95	30.73	8.78	86.66	62.56
04/21/95	-	-	-	-	-	-	-	-	19.71	35.77	16.06	86.66	63.02
04/11/96	-	-	-	-	-	-	-	-	19.11	22.02	2.91	86.66	66.84
04/30/97	-	-	-	-	-	-	-	-	18.94	21.71	2.77	86.66	67.04
04/21/98	-	-	-	-	-	-	-	-	16.79	19.87	3.08	86.66	69.12
04/27/99	-	-	-	-	-	-	-	-	17.66	21.97	4.31	86.66	67.94
04/10/00	-	-	-	-	-	-	-	-	18.82	21.65	2.83	86.66	67.15
04/02/01	-	-	-	-	-	-	-	-	18.24	19.48	1.24	86.66	68.12
04/01/02	-	-	-	-	-	-	-	-	21.26	21.35	0.09	86.66	65.38
11/01/02	-	-	-	-	-	-	-	-	20.67	21.80	1.13	86.66	65.71
04/01/03	-	-	-	-	-	-	-	-	-	19.36	0.00	86.66	67.31
11/01/03	-	-	-	-	-	-	-	-	20.67	21.80	1.13	86.66	65.71
03/30/04	-	-	-	-	-	-	-	-	20.36	20.42	0.06	86.66	66.29
11/22/04	-	-	-	-	-	-	-	-	20.43	20.48	0.06	(1)	-
03/29/05	-	-	-	-	-	-	-	-	19.79	20.11	0.32	(1)	-
12/16/05	-	-	-	-	-	-	-	-	20.10	20.35	0.25	(1)	-
04/11/06	-	-	-	-	-	-	-	-	20.54	20.56	0.02	(1)	-
12/04/06	-	-	-	-	-	-	-	-	21.43	21.45	0.02	86.66	65.23
05/01/07	-	-	-	-	-	-	-	-	21.92	22.43	0.51	86.66	64.62
09/27/07	-	-	-	-	-	-	-	-	22.03	22.77	0.74	86.66	64.45
03/27/08	-	-	-	-	-	-	-	-	22.75	22.93	0.18	86.66	63.87
09/22/08	-	-	-	-	-	-	-	-	23.03	23.08	0.05	86.66	63.62
03/26/09	-	-	-	-	-	-	-	-	22.89	24.04	1.15	86.66	63.49
10/12/09	-	-	-	-	-	-	-	-	22.98	24.36	1.38	86.66	63.34
05/04/10	-	-	-	-	-	-	-	-	20.05	22.30	2.25	86.66	66.06
10/06/10	-	-	-	-	-	-	-	-	20.87	21.66	0.79	86.66	65.60
03/30/11	-	-	-	-	-	-	-	-	19.75	19.91	0.16	86.51	66.72
09/28/11	-	-	-	-	-	-	-	-	20.08	20.19	0.11	86.51	66.40
04/03/12	-	-	-	-	-	-	-	-	20.49	20.55	0.06	86.51	66.01
09/27/12	-	-	-	-	-	-	-	-	20.35	21.12	0.77	86.51	65.97
03/22/13	-	-	-	-	-	-	-	-	20.48	21.42	0.94	86.51	65.80
09/25/13	-	-	-	-	-	-	-	-	20.76	28.70	7.94	86.51	63.80
04/02/14	-	-	-	-	-	-	-	-	20.20	27.22	7.02	86.51	64.59
WELL # P-2													
08/19/86	-	-	-	-	-	-	-	-	36.64	37.26	0.62	88.49	51.70
02/26/87	-	-	-	-	-	-	-	-	35.50	36.03	0.53	88.49	52.86
02/08/88	-	-	-	-	-	-	-	-	34.26	34.45	0.19	88.49	54.18
03/29/89	-	-	-	-	-	-	-	-	35.16	35.27	0.11	88.49	53.30
01/10/90	-	-	-	-	-	-	-	-	34.86	35.20	0.34	87.02	52.08
02/19/91	-	-	-	-	-	-	-	-	35.00	35.31	0.31	87.02	51.94
03/02/92	-	-	-	-	-	-	-	-	33.92	34.67	0.75	88.99	52.89
02/27/93	-	-	-	-	-	-	-	-	NP	32.88	0.00	88.99	54.11
04/18/94	-	-	-	-	-	-	-	-	31.50	34.58	3.08	88.99	54.74
04/21/95	-	-	-	-	-	-	-	-	27.09	33.23	6.14	88.99	58.40
04/10/96	-	-	-	-	-	-	-	-	27.86	33.75	5.89	88.99	57.69
05/01/97	-	-	-	-	-	-	-	-	19.03	30.68	11.65	88.99	65.11
04/21/98	-	-	-	-	-	-	-	-	13.50	28.52	15.02	88.99	69.81
05/07/99	-	-	-	-	-	-	-	-	20.12	25.97	5.85	88.99	65.44

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT (feet)	DEPTH TO GROUNDWATER (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)					
11/01/02	-	-	-	-	-	-	-	-	-	-	-	-	-
04/01/03	-	-	-	-	-	-	-	-	-	-	-	-	-
11/01/03	-	-	-	-	-	-	-	-	-	-	-	Damaged	-
WELL DESTROYED													
WELL # P-2A Area = STF S of Foster													
08/14/06	-	-	-	-	-	-	-	-	NP	20.32	0.00	88.10	67.78
12/04/06	-	-	-	-	-	-	-	-	NP	20.60	0.00	88.10	67.60
05/01/07	-	-	-	-	-	-	-	-	NP	20.92	0.00	88.10	67.18
03/27/08	-	-	-	-	-	-	-	-	20.96	23.02	2.06	88.10	66.64
04/02/08	-	-	-	-	-	-	-	-	20.96	23.02	2.06	88.10	66.64
09/22/08	-	-	-	-	-	-	-	-	21.32	22.74	1.42	88.10	66.43
03/26/09	-	-	-	-	-	-	-	-	21.18	23.65	2.47	88.10	66.31
10/12/09	-	-	-	-	-	-	-	-	21.40	23.68	2.28	88.10	66.14
05/04/10	-	-	-	-	-	-	-	-	21.43	23.03	1.60	88.10	66.28
10/08/10	-	-	-	-	-	-	-	-	21.75	21.98	0.23	88.10	66.29
03/30/11	-	-	-	-	-	-	-	-	NP	21.45	0.00	88.29	66.84
09/28/11	-	-	-	-	-	-	-	-	NP	22.05	0.00	88.29	66.24
04/03/12	-	-	-	-	-	-	-	-	22.40	22.72	0.32	88.29	65.81
09/26/12	-	-	-	-	-	-	-	-	22.55	23.75	1.20	88.29	65.45
03/20/13	-	-	-	-	-	-	-	-	22.27	23.60	1.33	88.29	65.69
09/25/13	-	-	-	-	-	-	-	-	22.62	24.88	2.26	88.29	65.12
04/02/14	-	-	-	-	-	-	-	-	22.82	24.93	2.11	88.29	64.95
WELL # P-3													
08/19/86	-	-	-	-	-	-	-	-	46.17	46.25	2.08	93.57	46.89
02/26/87	-	-	-	-	-	-	-	-	46.76	46.80	0.04	93.57	46.80
02/08/88	-	-	-	-	-	-	-	-	46.95	47.26	0.31	93.57	46.54
03/29/89	-	-	-	-	-	-	-	-	43.38	44.65	1.27	93.57	49.86
04/11/90	-	-	-	-	-	-	-	-	44.83	45.03	0.20	92.18	47.30
02/19/91	-	-	-	-	-	-	-	-	45.06	45.20	0.14	92.18	47.09
03/02/92	-	-	-	-	-	-	-	-	45.43	45.92	0.49	92.14	46.59
02/27/93	-	-	-	-	-	-	-	-	44.65	44.92	0.27	92.14	47.42
05/20/93	-	-	-	-	-	-	-	-	NP	46.67	0.00	92.14	45.47
04/18/94	-	-	-	-	-	-	-	-	44.91	45.13	0.22	92.14	47.18
04/21/95	-	-	-	-	-	-	-	-	45.68	45.76	0.07	92.14	46.43
04/10/96	-	-	-	-	-	-	-	-	45.16	45.46	0.30	92.14	46.91
04/30/97	-	-	-	-	-	-	-	-	44.16	44.18	0.02	92.14	47.96
04/23/98	-	-	-	-	-	-	-	-	40.84	43.34	2.50	92.14	50.69
04/26/99	-	-	-	-	-	-	-	-	44.48	44.82	0.34	92.14	47.68
04/11/00	-	-	-	-	-	-	-	-	44.46	44.96	0.50	92.14	47.56
WELL DESTROYED													
WELL # P-4													
08/19/86	-	-	-	-	-	-	-	-	DRY	-	-	93.69	-
02/26/87	-	-	-	-	-	-	-	-	49.33	49.43	0.10	93.69	44.34
02/08/88	-	-	-	-	-	-	-	-	49.56	49.58	0.02	93.69	44.13
03/29/89	-	-	-	-	-	-	-	-	NP	49.58	0.00	93.69	44.11
06/08/89	-	-	-	-	-	-	-	-	NP	49.58	0.00	85.27	35.69
03/26/90	-	-	-	-	-	-	-	-	NP	49.35	0.00	85.27	35.92
02/19/91	-	-	-	-	-	-	-	-	49.38	ND	-49.38	85.27	-
03/02/92	-	-	-	-	-	-	-	-	49.39	49.52	0.13	92.23	42.81
02/27/93	-	-	-	-	-	-	-	-	49.70	49.87	0.17	92.23	42.49
04/18/94	-	-	-	-	-	-	-	-	48.85	48.87	0.02	92.23	43.36
04/21/95	-	-	-	-	-	-	-	-	NP	48.12	0.00	92.23	44.11
04/09/96	-	-	-	-	-	-	-	-	NP	48.83	0.00	92.23	43.40
04/30/97	-	-	-	-	-	-	-	-	NP	48.23	0.00	92.23	44.00
WELL DESTROYED													
WELL # P-4A Area = WTF													
03/30/04	-	-	-	-	-	-	-	-	47.06	47.21	0.15	96.33	49.23
11/22/04	-	-	-	-	-	-	-	-	47.95	48.03	0.08	96.33	48.36
03/30/05	-	-	-	-	-	-	-	-	48.02	48.04	0.02	96.33	48.31
12/07/05	-	-	-	-	-	-	-	-	-	48.13	0.00	96.33	48.20
04/11/06	-	-	-	-	-	-	-	-	NP	48.14	0.00	96.33	48.19
12/04/06	-	-	-	-	-	-	-	-	NP	48.05	0.00	96.33	48.28
05/01/07	-	-	-	-	-	-	-	-	NP	48.30	0.00	96.33	48.03
09/25/07	-	-	-	-	-	-	-	-	NP	48.09	0.00	96.33	48.24
03/27/08	-	-	-	-	-	-	-	-	NP	48.42	0.00	96.33	47.91
09/22/08	-	-	-	-	-	-	-	-	DRY	-	-	96.33	-
03/26/09	-	-	-	-	-	-	-	-	DRY	-	-	96.33	-
10/12/09	-	-	-	-	-	-	-	-	DRY	-	-	96.33	-
05/04/10	-	-	-	-	-	-	-	-	DRY	-	-	96.33	-
10/08/10	-	-	-	-	-	-	-	-	DRY	-	-	96.33	-
03/30/11	-	-	-	-	-	-	-	-	DRY	-	-	96.33	-
09/28/11	-	-	-	-	-	-	-	-	DRY	-	-	96.33	-
04/03/12	-	-	-	-	-	-	-	-	DRY	-	-	96.33	-
09/26/12	-	-	-	-	-	-	-	-	DRY	-	-	96.33	-
03/20/13	-	-	-	-	-	-	-	-	DRY	-	-	96.33	-
09/26/13	-	-	-	-	-	-	-	-	DRY	-	-	96.33	-
04/02/14	-	-	-	-	-	-	-	-	DRY	-	-	96.33	-

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
WELL # P-5													
08/20/86	-	-	-	-	-	-	-	-	NP	18.80	0.00	94.28	75.48
02/26/87	-	-	-	-	-	-	-	-	NP	19.76	0.00	94.28	74.52
02/08/88	-	-	-	-	-	-	-	-	NP	21.68	0.00	94.28	72.60
03/29/89	-	-	-	-	-	-	-	-	NP	20.71	0.00	94.28	73.57
06/08/89	-	-	-	-	-	-	-	-	NP	24.38	0.00	92.81	68.43
03/26/90	-	-	-	-	-	-	-	-	NP	21.63	0.00	92.81	71.18
02/19/91	-	-	-	-	-	-	-	-	NP	21.66	0.00	92.81	71.15
03/02/92	-	-	-	-	-	-	-	-	NP	18.92	0.00	92.80	73.88
02/27/93	-	-	-	-	-	-	-	-	NP	16.13	0.00	92.80	76.67
04/18/94	-	-	-	-	-	-	-	-	NP	18.80	0.00	92.80	74.00
04/21/95	-	-	-	-	-	-	-	-	NP	16.14	0.00	92.80	76.66
04/09/96	-	-	-	-	-	-	-	-	NP	18.63	0.00	92.80	74.17
05/01/97	-	-	-	-	-	-	-	-	NP	17.89	0.00	92.80	74.91
04/23/98	-	-	-	-	-	-	-	-	NP	14.38	0.00	92.80	78.42
	WELL DESTROYED												
WELL # P-6													
02/08/88	-	-	-	-	-	-	-	-	37.31	39.73	2.42	95.21	57.31
09/28/88	-	-	-	-	-	-	-	-	NP	36.96	0.00	95.21	58.25
03/29/89	-	-	-	-	-	-	-	-	37.23	37.69	0.46	95.21	57.87
03/28/90	-	-	-	-	-	-	-	-	36.66	39.56	0.70	93.49	54.44
02/19/91	-	-	-	-	-	-	-	-	38.45	40.00	1.55	93.49	54.66
03/02/92	-	-	-	-	-	-	-	-	38.50	40.00	1.50	93.49	54.62
02/27/93	-	-	-	-	-	-	-	-	NP	37.50	0.00	93.49	55.99
04/18/94	-	-	-	-	-	-	-	-	38.01	38.07	0.06	93.49	55.47
04/20/95	-	-	-	-	-	-	-	-	NP	37.00	0.00	93.49	56.49
04/09/96	-	-	-	-	-	-	-	-	NP	38.00	0.00	93.49	55.49
04/30/97	-	-	-	-	-	-	-	-	37.65	37.79	0.14	93.49	55.81
04/21/98	-	-	-	-	-	-	-	-	NP	36.73	0.00	93.49	56.76
11/02/98	-	-	-	-	-	-	-	-	NP	37.61	0.00	93.49	55.88
	WELL DESTROYED												
WELL # P-6A	Area = WTF												
11/01/03	-	-	-	-	-	-	-	-	57.62	57.77	0.15	95.52	37.86
03/30/04	-	-	-	-	-	-	-	-	57.95	58.66	0.71	95.52	37.40
11/22/04	-	-	-	-	-	-	-	-	58.28	58.34	0.06	95.52	37.23
03/30/05	-	-	-	-	-	-	-	-	57.35	57.37	0.02	95.52	38.17
12/07/05	-	-	-	-	-	-	-	-	-	57.84	0.00	95.52	37.68
04/11/06	-	-	-	-	-	-	-	-	film	58.05	0.00	95.52	37.47
12/04/06	-	-	-	-	-	-	-	-	58.10	58.15	0.05	95.52	37.41
05/01/07	-	-	-	-	-	-	-	-	58.45	58.68	0.23	95.52	37.01
09/25/07	-	-	-	-	-	-	-	-	58.71	59.41	0.70	95.52	36.64
03/27/08	-	-	-	-	-	-	-	-	59.56	DTB @ 60.45	0.89	95.52	35.74
09/22/08	-	-	-	-	-	-	-	-	59.76	DTB @ 60.24	0.48	95.52	35.64
03/26/09	-	-	-	-	-	-	-	-	60.50	60.52	0.02	95.52	35.02
10/12/09	-	-	-	-	-	-	-	-	60.50	60.53	0.03	95.52	35.01
05/04/10	-	-	-	-	-	-	-	-	60.47	60.48	0.01	95.52	35.05
10/08/10	-	-	-	-	-	-	-	-	60.49	60.50	0.01	95.52	35.03
03/30/11	-	-	-	-	-	-	-	-	NP	60.48	0.00	95.52	35.04
09/28/11	-	-	-	-	-	-	-	-	NP	60.48	0.00	95.52	35.04
04/03/12	-	-	-	-	-	-	-	-	NP	60.51	0.00	95.52	35.01
09/26/12	-	-	-	-	-	-	-	-	NP	60.52	0.00	95.52	35.00
03/20/13	-	-	-	-	-	-	-	-	NP	60.51	0.00	95.52	35.01
09/25/13	-	-	-	-	-	-	-	-	NP	60.54	0.00	95.52	34.98
04/02/14	-	-	-	-	-	-	-	-	NP	60.28	0.00	95.52	35.24
WELL # P-7													
02/08/88	-	-	-	-	-	-	-	-	DRY	-	-	97.73	-
03/29/89	-	-	-	-	-	-	-	-	NP	50.00	0.00	97.73	47.73
03/28/90	-	-	-	-	-	-	-	-	NP	50.73	0.00	92.64	41.91
02/19/91	-	-	-	-	-	-	-	-	DRY	-	-	92.64	-
03/02/92	-	-	-	-	-	-	-	-	DRY	-	-	92.63	-
02/27/93	-	-	-	-	-	-	-	-	DRY	-	-	92.63	-
04/18/94	-	-	-	-	-	-	-	-	NP	49.50	0.00	92.63	43.13
04/20/95	-	-	-	-	-	-	-	-	NP	48.11	0.00	92.63	44.52
04/09/96	-	-	-	-	-	-	-	-	NP	49.83	0.00	92.63	42.80
04/30/97	-	-	-	-	-	-	-	-	NP	49.91	0.00	92.63	42.72
04/23/98	-	-	-	-	-	-	-	-	NP	48.25	0.00	92.63	43.38
	WELL DESTROYED												
WELL # P-8													
02/08/88	-	-	-	-	-	-	-	-	NP	61.13	0.00	95.45	34.32
03/30/88	-	-	-	-	-	-	-	-	NP	61.18	0.00	95.45	34.27
03/29/89	-	-	-	-	-	-	-	-	NP	63.81	0.00	95.45	31.64
03/26/90	-	-	-	-	-	-	-	-	NP	63.83	0.00	94.30	30.47
02/19/91	-	-	-	-	-	-	-	-	NP	63.83	0.00	94.30	30.47
03/02/92	-	-	-	-	-	-	-	-	NP	64.16	0.00	93.29	29.13
02/27/93	-	-	-	-	-	-	-	-	NP	64.12	0.00	93.29	29.17
04/18/94	-	-	-	-	-	-	-	-	DRY	-	-	93.29	-
04/20/95	-	-	-	-	-	-	-	-	NP	64.09	0.00	93.29	29.20
04/10/96	-	-	-	-	-	-	-	-	NP	64.08	0.00	93.29	29.21

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
05/01/97	-	-	-	-	-	-	-	-	NP	60.88	0.00	93.29	32.41
04/23/98	-	-	-	-	-	-	-	-	NP	60.80	0.00	93.29	32.49
11/05/98	-	-	-	-	-	-	-	-	NP	59.16	0.00	93.29	34.13
	WELL DESTROYED												
WELL # P-9													
02/08/88	-	-	-	-	-	-	-	-	21.33	22.26	0.93	92.34	70.78
03/29/89	-	-	-	-	-	-	-	-	21.79	23.06	1.27	92.34	70.24
01/10/90	-	-	-	-	-	-	-	-	22.52	23.02	0.50	88.41	65.77
02/19/91	-	-	-	-	-	-	-	-	22.83	23.58	0.75	88.41	65.40
03/02/92	-	-	-	-	-	-	-	-	23.21	23.33	0.12	88.38	65.14
02/27/93	-	-	-	-	-	-	-	-	19.80	22.02	2.22	88.38	68.04
04/18/94	-	-	-	-	-	-	-	-	20.33	22.75	2.42	88.38	67.46
04/20/95	-	-	-	-	-	-	-	-	18.88	19.38	0.50	88.38	69.38
04/10/96	-	-	-	-	-	-	-	-	20.02	20.03	0.01	88.38	68.36
05/01/97	-	-	-	-	-	-	-	-	19.52	19.54	0.02	88.38	68.86
04/21/98	-	-	-	-	-	-	-	-	13.91	13.91	0.00	88.38	74.47
04/26/99	-	-	-	-	-	-	-	-	NP	18.92	0.00	88.38	69.46
04/10/00	-	-	-	-	-	-	-	-	NP	19.00	0.00	88.38	69.38
04/03/01	-	-	-	-	-	-	-	-	NP	16.79	0.00	88.38	71.59
04/01/02	-	-	-	-	-	-	-	-	-	20.85	0.00	88.38	67.53
07/01/02	7.8		220	64	100	110		-	-	-	-	-	-
11/01/02	-	-	-	-	-	-	-	-	21.85	22.00	0.35	88.38	66.64
04/01/02	-	-	-	-	-	-	-	-	18.24	18.55	0.31	88.38	70.06
11/01/03	-	-	-	-	-	-	-	-	19.92	19.94	0.02	88.38	68.46
03/30/04	-	-	-	-	-	-	-	-	20.22	20.24	0.02	88.38	68.16
05/04/10									22.67	22.67	0.20	88.38	65.66
	WELL DESTROYED												
WELL # P-9A Area = STF S of Foster													
04/11/06	-	-	-	-	-	-	-	-	20.42	24.78	4.36	88.68	67.19
12/04/06	-	-	-	-	-	-	-	-	21.06	22.75	1.69	88.68	67.21
05/01/07	-	-	-	-	-	-	-	-	21.59	22.03	0.44	88.86	66.98
09/25/07	-	-	-	-	-	-	-	-	21.76	22.30	0.54	88.66	66.79
03/27/08	-	-	-	-	-	-	-	-	22.09	22.46	0.37	88.68	66.50
09/22/08	-	-	-	-	-	-	-	-	22.31	22.51	0.20	88.68	66.32
03/26/09	-	-	-	-	-	-	-	-	22.37	23.04	0.67	88.68	66.15
10/12/09	-	-	-	-	-	-	-	-	22.55	22.94	0.39	88.68	66.03
05/04/10	-	-	-	-	-	-	-	-	22.67	22.87	0.20	88.68	65.98
10/06/10	-	-	-	-	-	-	-	-	22.91	23.32	0.41	88.68	65.87
03/30/11	-	-	-	-	-	-	-	-	22.35	22.39	0.04	88.68	66.32
09/28/11	-	-	-	-	-	-	-	-	22.49	22.71	0.22	88.68	66.14
04/03/12	-	-	-	-	-	-	-	-	22.67	23.09	0.42	88.68	65.91
09/29/12	-	-	-	-	-	-	-	-	22.80	23.15	0.35	88.68	65.79
03/20/13	-	-	-	-	-	-	-	-	22.83	23.07	0.24	88.68	65.79
09/25/13	-	-	-	-	-	-	-	-	22.95	23.07	0.12	88.68	65.70
04/02/14	-	-	-	-	-	-	-	-	23.18	23.40	0.22	88.68	65.45
WELL # P-10 Area = STF S of Foster													
02/08/88	-	-	-	-	-	-	-	-	NP	18.33	0.00	88.84	70.51
03/29/89	-	-	-	-	-	-	-	-	NP	18.42	0.00	88.84	70.42
03/28/90	-	-	-	-	-	-	-	-	NP	19.67	0.00	86.85	67.18
12/20/90	-	-	-	-	-	-	-	-	NP	20.00	0.00	86.85	66.85
02/19/91	-	-	-	-	-	-	-	-	NP	19.08	0.00	86.85	67.77
03/02/92	-	-	-	-	-	-	-	-	NP	19.33	0.00	86.84	67.51
02/27/93	-	-	-	-	-	-	-	-	NP	17.50	0.00	86.84	69.34
04/18/94	-	-	-	-	-	-	-	-	NP	17.42	0.00	86.84	69.42
04/20/95	-	-	-	-	-	-	-	-	NP	16.50	0.00	86.84	70.34
04/10/96	-	-	-	-	-	-	-	-	NP	18.20	0.00	86.84	68.64
05/01/97	-	-	-	-	-	-	-	-	NP	17.30	0.00	86.84	69.54
04/23/98	-	-	-	-	-	-	-	-	NP	16.24*	0.00	86.84	86.84
04/26/99	-	-	-	-	-	-	-	-	NP	17.92	0.00	86.84	68.92
04/10/00	-	-	-	-	-	-	-	-	NP	18.51	0.00	86.84	68.33
04/03/01	-	-	-	-	-	-	-	-	NP	18.25	0.00	86.84	68.59
04/01/02	-	-	-	-	-	-	-	-	-	19.04	0.00	86.84	67.80
11/01/02	-	-	-	-	-	-	-	-	-	19.53	0.00	86.84	67.31
02/01/03	-	-	-	-	-	-	-	-	-	18.42	0.00	86.84	68.42
11/01/03	-	-	-	-	-	-	-	-	-	18.40	0.00	86.84	68.44
03/30/04	-	-	-	-	-	-	-	-	-	18.20	0.00	86.84	68.64
11/22/04	-	-	-	-	-	-	-	-	-	-	- well temporarily buried		
03/29/05	-	-	-	-	-	-	-	-	-	-	- well temporarily buried		
07/07/05	-	-	-	-	-	-	-	-	-	17.31	0.00	well head modified	
04/13/06	-	-	-	-	-	-	-	-	NP	17.85	0.00	89.95	72.10
12/04/06	-	-	-	-	-	-	-	-	NP	18.35	0.00	89.95	71.60
05/01/07	-	-	-	-	-	-	-	-	NP	19.57	0.00	89.95	70.38
09/25/07	-	-	-	-	-	-	-	-	NP	19.70	0.00	89.95	70.25
03/27/08	-	-	-	-	-	-	-	-	NP	19.51	0.00	89.95	70.44
09/22/08	-	-	-	-	-	-	-	-	NP	19.95	0.00	89.95	70.00
03/26/09	-	-	-	-	-	-	-	-	NP	19.75	0.00	89.95	70.20
10/12/09	-	-	-	-	-	-	-	-	NP	20.32	0.00	89.95	69.63
05/04/10	-	-	-	-	-	-	-	-	NP	20.20	0.00	89.95	69.75
10/06/10	-	-	-	-	-	-	-	-	NP	20.52	0.00	89.95	69.43
03/30/11	-	-	-	-	-	-	-	-	NP	20.05	0.00	89.95	69.90
09/28/11	-	-	-	-	-	-	-	-	NP	20.12	0.00	89.95	69.83
04/03/12	-	-	-	-	-	-	-	-	NP	20.09	0.00	89.95	69.86
09/26/12	-	-	-	-	-	-	-	-	NO ACCESS	-	-	89.95	-

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
03/20/13	-	-	-	-	-	-	-	-	NP	20.10	0.00	89.95	69.85
09/26/13	-	-	-	-	-	-	-	-	NP	20.78	0.00	89.95	69.17
04/02/14	-	-	-	-	-	-	-	-	NP	20.85	0.00	89.95	69.10
WELL # P-11	Area = STF S of Foster												
02/08/88	-	-	-	-	-	-	-	-	19.21	20.59	1.38	89.59	70.04
06/17/88	-	-	-	-	-	-	-	-	18.90	19.27	0.37	89.59	70.60
03/29/89	-	-	-	-	-	-	-	-	19.75	24.10	4.35	89.59	66.77
10/10/90	-	-	-	-	-	-	-	-	21.15	21.46	0.31	87.26	66.05
06/06/90	-	-	-	-	-	-	-	-	21.60	22.18	0.66	87.26	65.62
02/19/91	-	-	-	-	-	-	-	-	20.81	20.88	0.07	87.26	66.45
03/02/92	-	-	-	-	-	-	-	-	20.42	21.38	0.96	87.26	66.80
02/27/93	-	-	-	-	-	-	-	-	18.54	19.51	0.97	87.26	68.48
04/18/94	-	-	-	-	-	-	-	-	NP	18.58	0.00	87.26	68.68
04/20/95	-	-	-	-	-	-	-	-	NP	18.10	0.00	87.26	69.16
04/10/96	-	-	-	-	-	-	-	-	NP	18.18	0.00	87.26	69.08
05/01/97	-	-	-	-	-	-	-	-	NP	18.35	0.00	87.26	68.91
04/21/98	-	-	-	-	-	-	-	-	NP	17.45	0.00	87.26	69.81
04/26/99	-	-	-	-	-	-	-	-	NP	17.69	0.00	87.26	69.57
04/10/00	-	-	-	-	-	-	-	-	NP	18.21	0.00	87.26	69.05
04/03/01	-	-	-	-	-	-	-	-	NP	18.22	0.00	87.26	69.04
04/01/02	-	-	-	-	-	-	-	-	NP	18.87	0.00	87.26	68.39
11/01/02	-	-	-	-	-	-	-	-	NP	18.60	0.00	87.26	68.66
04/01/03	-	-	-	-	-	-	-	-	18.41	18.42	0.01	87.26	68.85
11/01/03	-	-	-	-	-	-	-	-	NP	18.57	0.00	87.26	68.69
03/30/04	-	-	-	-	-	-	-	-	NP	18.60	0.00	87.26	68.66
11/22/04	-	-	-	-	-	-	-	-	-	-	- well temporarily buried		
03/29/05	-	-	-	-	-	-	-	-	-	-	- well temporarily buried		
07/07/05	-	-	-	-	-	-	-	-	-	17.92	0.00	well head modified	
04/13/06	-	-	-	-	-	-	-	-	NP	18.21	0.00	86.73	70.52
12/04/06	-	-	-	-	-	-	-	-	NP	17.18	0.00	86.73	69.55
05/01/07	-		-	-	-	-	-	-	17.53	17.57	0.04	86.73	69.19
09/25/07	-	-	-	-	-	-	-	-	18.03	18.08	0.05	86.73	68.69
03/27/08	-	-	-	-	-	-	-	-	NO ACCESS	-	-	86.73	-
09/22/08	-	-	-	-	-	-	-	-	NO ACCESS	-	-	86.73	-
03/26/09	-	-	-	-	-	-	-	-	NO ACCESS	-	-	86.73	-
10/12/09	-	-	-	-	-	-	-	-	DRY	-	-	86.73	-
05/04/10	-	-	-	-	-	-	-	-	18.82	18.84	0.02	86.73	67.91
10/06/10	-	-	-	-	-	-	-	-	DRY	-	0.00	86.73	86.73
03/30/11	-	-	-	-	-	-	-	-	NP	17.87	0.00	86.73	68.86
09/28/11	-	-	-	-	-	-	-	-	NP	18.90	0.00	86.73	67.83
04/03/12	-	-	-	-	-	-	-	-	NP	18.52	0.00	86.73	68.21
09/26/12	-	-	-	-	-	-	-	-	NP	19.20	0.00	86.73	67.53
03/20/13	-	-	-	-	-	-	-	-	NP	18.45	0.00	86.73	68.28
09/25/13	-	-	-	-	-	-	-	-	NP	19.65	0.00	86.73	67.08
04/02/14	-	-	-	-	-	-	-	-	NP	19.41	0.00	86.73	67.32
WELL # P-12	Area = STF S of Foster												
02/08/88	-	-	-	-	-	-	-	-	22.02	24.39	2.37	91.13	68.53
06/17/88	-	-	-	-	-	-	-	-	21.91	24.70	2.79	91.13	68.54
03/29/89	-	-	-	-	-	-	-	-	22.27	25.17	2.90	91.13	68.15
01/10/90	-	-	-	-	-	-	-	-	22.61	25.54	2.93	87.25	63.92
02/19/91	-	-	-	-	-	-	-	-	22.85	25.59	2.74	87.25	63.73
03/02/92	-	-	-	-	-	-	-	-	22.81	25.50	2.69	87.18	63.71
02/27/93	-	-	-	-	-	-	-	-	22.27	23.42	1.15	87.18	64.63
04/18/94	-	-	-	-	-	-	-	-	22.09	23.69	1.60	87.18	64.65
04/24/95	-	-	-	-	-	-	-	-	22.11	24.40	2.29	87.18	64.51
04/11/96	-	-	-	-	-	-	-	-	22.08	22.64	0.56	87.18	64.98
04/28/97	-	-	-	-	-	-	-	-	21.48	21.92	0.44	87.18	65.59
04/20/98	-	-	-	-	-	-	-	-	19.63	19.64	0.01	87.18	67.55
11/04/98	-	-	-	-	-	-	-	-	NP	24.42	0.00	87.18	62.76
04/27/99	-	-	-	-	-	-	-	-	21.40	21.76	0.36	87.18	65.69
04/10/00	-	-	-	-	-	-	-	-	21.97	22.12	0.15	87.18	65.17
04/02/01	-	-	-	-	-	-	-	-	21.25	21.29	0.04	87.18	65.92
04/01/02	-	-	-	-	-	-	-	-	22.23	22.31	0.08	87.18	64.93
11/01/02	-	-	-	-	-	-	-	-	22.74	22.99	0.25	87.18	64.38
04/01/03	-	-	-	-	-	-	-	-	NP	21.75	0.00	87.18	65.43
11/01/03	-	-	-	-	-	-	-	-	21.49	22.16	0.67	87.18	65.53
03/30/04	-	-	-	-	-	-	-	-	23.70	24.25	0.55	87.18	63.35
05/01/07	-	-	-	-	-	-	-	-	NP	23.11	0.00	87.18	64.07
09/27/07	-	-	-	-	-	-	-	-	23.18	23.39	0.21	87.18	63.95
03/27/08	-	-	-	-	-	-	-	-	23.55	23.75	0.20	87.18	63.58
09/22/08	-	-	-	-	-	-	-	-	23.76	23.94	0.18	87.18	63.38
03/26/09	-	-	-	-	-	-	-	-	23.63	24.60	0.97	87.18	63.31
10/12/09	-	-	-	-	-	-	-	-	NP	23.57	0.00	87.18	63.61
05/04/10	-	-	-	-	-	-	-	-	23.50	24.46	0.96	87.18	63.44
10/06/10	-	-	-	-	-	-	-	-	23.70	24.75	1.05	87.18	63.22
03/30/11	-	-	-	-	-	-	-	-	23.30	23.34	0.04	87.18	63.87
09/28/11	-	-	-	-	-	-	-	-	23.35	23.50	0.15	87.18	63.79
04/03/12	-	-	-	-	-	-	-	-	NO ACCESS	-	-	87.18	-
09/26/12	-	-	-	-	-	-	-	-	23.95	25.55	1.60	87.18	62.84

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
03/20/13	-	-	-	-	-	-	-	-	24.00	25.40	1.40	87.18	62.84
09/25/13	-	-	-	-	-	-	-	-	24.18	25.90	1.72	87.18	62.58
04/02/14	-	-	-	-	-	-	-	-	24.26	26.32	2.06	87.18	62.42
WELL # P-13 Area = STF S of Foster													
08/08/89	-	-	-	-	-	-	-	-	24.13	27.35	3.22	87.86	62.94
01/10/90	-	-	-	-	-	-	-	-	24.16	27.58	3.42	87.86	62.86
02/19/91	-	-	-	-	-	-	-	-	24.35	27.58	3.23	87.86	62.72
08/01/91	-	-	-	-	-	-	-	-	24.77	27.30	2.53	87.80	62.41
03/02/92	-	-	-	-	-	-	-	-	24.32	27.58	3.26	87.80	62.68
02/27/93	-	-	-	-	-	-	-	-	23.76	26.27	2.51	87.80	63.43
04/18/94	-	-	-	-	-	-	-	-	23.94	28.99	5.05	87.80	62.62
04/20/95	-	-	-	-	-	-	-	-	23.72	25.59	1.87	87.80	63.62
04/09/96	-	-	-	-	-	-	-	-	24.43	24.85	0.42	87.80	63.27
04/28/97	-	-	-	-	-	-	-	-	23.67	24.00	0.33	87.80	64.05
04/21/98	-	-	-	-	-	-	-	-	22.03	24.36	2.33	87.80	65.20
04/28/99	-	-	-	-	-	-	-	-	23.38	24.65	1.27	87.80	64.11
04/10/00	-	-	-	-	-	-	-	-	23.70	24.85	1.15	87.80	63.82
04/02/01	-	-	-	-	-	-	-	-	23.48	23.65	0.17	87.80	64.28
04/01/02	-	-	-	-	-	-	-	-	24.45	25.34	0.89	87.80	63.13
08/07/02	0.16	-	6.5	14	2.8	18	-	-	-	-	-	-	-
11/01/02	-	-	-	-	-	-	-	-	24.20	25.95	1.75	87.80	63.17
04/01/03	-	-	-	-	-	-	-	-	-	23.88	0.00	87.80	63.92
11/01/03	-	-	-	-	-	-	-	-	23.54	24.70	1.16	87.80	63.98
03/30/04	-	-	-	-	-	-	-	-	25.08	25.78	-	-	-
11/22/04	-	-	-	-	-	-	-	-	26.39	25.58	-	-	-
03/29/05	-	-	-	-	-	-	-	-	24.04	24.54	0.50	-	-
12/06/05	-	-	-	-	-	-	-	-	24.48	25.15	0.67	-	-
04/13/06	-	-	-	-	-	-	-	-	24.88	25.54	0.66	-	-
12/04/06	-	-	-	-	-	-	-	-	25.24	25.70	0.46	87.80	62.45
05/01/07	-	-	-	-	-	-	-	-	25.17	25.68	0.51	87.80	62.51
09/25/07	-	-	-	-	-	-	-	-	26.27	28.64	1.37	87.80	62.19
03/27/08	-	-	-	-	-	-	-	-	25.52	26.83	1.31	87.80	61.98
09/22/08	-	-	-	-	-	-	-	-	25.81	26.79	0.98	87.80	61.75
03/26/09	-	-	-	-	-	-	-	-	25.75	26.70	0.95	87.80	61.82
10/12/09	-	-	-	-	-	-	-	-	25.85	27.13	1.28	87.80	61.64
05/04/10	-	-	-	-	-	-	-	-	25.61	26.10	0.49	87.80	62.07
10/06/10	-	-	-	-	-	-	-	-	25.72	27.07	1.35	87.80	61.76
03/30/11	-	-	-	-	-	-	-	-	25.40	26.17	0.77	87.80	62.21
09/28/11	-	-	-	-	-	-	-	-	25.47	26.46	1.01	87.80	62.08
04/03/12	-	-	-	-	-	-	-	-	25.61	27.69	2.08	87.80	61.68
09/26/12	-	-	-	-	-	-	-	-	25.74	27.70	1.96	87.80	61.68
03/20/13	-	-	-	-	-	-	-	-	25.94	28.09	2.15	87.80	61.33
09/25/13	-	-	-	-	-	-	-	-	25.92	28.15	2.23	87.80	61.33
04/02/14	-	-	-	-	-	-	-	-	26.15	28.40	2.25	87.80	61.10
WELL # P-14													
12/13/89	-	-	-	-	-	-	-	-	DRY	-	-	92.94	-
03/28/90	-	-	-	-	-	-	-	-	DRY	-	-	92.94	-
02/19/91	-	-	-	-	-	-	-	-	DRY	-	-	92.94	-
03/02/92	-	-	-	-	-	-	-	-	DRY	-	-	92.96	-
11/20/92	-	-	-	-	-	-	-	-	NP	49.00	0.00	92.96	43.96
02/27/93	-	-	-	-	-	-	-	-	48.24	48.97	0.73	92.96	44.54
04/18/94	-	-	-	-	-	-	-	-	NP	48.93	0.00	92.96	44.03
04/20/95	-	-	-	-	-	-	-	-	46.71	48.80	2.09	92.96	45.74
04/30/97	-	-	-	-	-	-	-	-	47.61	48.98	1.37	92.96	45.01
04/21/98	-	-	-	-	-	-	-	-	46.02	47.81	1.79	92.96	46.50
08/07/02	<0.10	-	2.3	3.8	1.5	5.9	-	-	-	-	-	-	-
	WELL DESTROYED												
WELL # PO-1 Area = DFF-SITE N													
06/08/89	-	-	-	-	-	-	-	-	39.75	ND	-	98.43	-
03/26/90	-	-	-	-	-	-	-	-	39.06	ND	-	98.43	-
08/28/90	-	-	-	-	-	-	-	-	NP	36.01	0.00	95.36	59.35
02/19/91	-	-	<1.0	-	-	-	-	-	NP	36.08	0.00	95.36	59.28
03/02/92	-	-		-	-	-	-	-	NP	36.29	0.00	94.34	58.05
05/28/92	-	-	<1.0	<1.0	<1.0	61	-	-	NP	35.70	0.00	94.34	58.64
02/27/93	-	-	-	-	-	-	-	-	NP	35.09	0.00	94.34	59.25
04/18/94	-	-	-	-	-	-	-	-	DRY	-	-	94.34	-
04/20/95	-	-	-	-	-	-	-	-	DRY	-	-	94.34	-
04/09/96	-	-	-	-	-	-	-	-	NP	36.13	0.00	94.34	58.21
04/29/97	-	-	-	-	-	-	-	-	NP	35.80	0.00	94.34	58.54
04/23/98	-	-	-	-	-	-	-	-	NP	36.94	0.00	94.34	57.40
04/28/99	-	-	-	-	-	-	-	-	NP	35.95	0.00	94.34	58.39
04/11/00	-	-	-	-	-	-	-	-	NP	36.46	0.00	94.34	57.88
04/03/01	-	-	-	-	-	-	-	-	NP	36.00	0.00	94.34	58.34
04/01/02	-	-	-	-	-	-	-	-	NP	36.33	0.00	94.34	58.01
11/01/02	-	-	-	-	-	-	-	-	NP	35.93	0.00	94.34	58.41
04/01/03	-	-	-	-	-	-	-	-	NP	35.23	0.00	94.34	59.11
11/01/03	-	-	-	-	-	-	-	-	NP	36.06	0.00	94.34	58.28
03/30/04	-	-	-	-	-	-	-	-	NP	36.26	0.00	94.34	58.08
11/22/04	-	-	-	-	-	-	-	-	NP	36.14	0.00	94.34	58.20
03/29/05	-	-	-	-	-	-	-	-	NP	36.03	0.00	94.34	58.31
12/07/05	-	-	-	-	-	-	-	-	NP	36.14	0.00	94.34	58.20
04/11/06	-	-	-	-	-	-	-	-	NP	36.31	0.00	94.34	58.03

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT (feet)	DEPTH TO GROUNDWATER (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)					
12/04/06	-	-	-	-	-	-	-	-	NP	36.05	0.00	94.34	58.29
05/01/07	-	-	-	-	-	-	-	-	NP	36.42	0.00	94.34	57.92
09/25/07	-	-	-	-	-	-	-	-	NP	36.37	0.00	94.34	57.97
03/27/08	-	-	-	-	-	-	-	-	NP	36.32	0.00	94.34	58.02
09/22/08	-	-	-	-	-	-	-	-	NP	36.12	0.00	94.34	58.22
03/26/09	-	-	-	-	-	-	-	-	NP	36.35	0.00	94.34	57.99
10/12/09	-	-	-	-	-	-	-	-	NP	36.72	0.00	94.34	57.62
05/04/10	-	-	-	-	-	-	-	-	NP	36.41	0.00	94.34	57.93
10/06/10	-	-	-	-	-	-	-	-	NP	36.85	0.00	94.34	57.49
03/30/11	-	-	-	-	-	-	-	-	NP	36.36	0.00	94.34	57.98
09/28/11	-	-	-	-	-	-	-	-	NP	36.23	0.00	94.34	58.11
04/03/12	-	-	-	-	-	-	-	-	NP	36.42	0.00	94.34	57.92
09/26/12	-	-	-	-	-	-	-	-	NP	36.83	0.00	94.34	57.51
09/20/13	-	-	-	-	-	-	-	-	NP	36.18	0.00	94.34	58.16
09/23/13	-	-	-	-	-	-	-	-	NP	36.27	0.00	94.34	58.07
04/01/14	-	-	-	-	-	-	-	-	NP	36.25	0.00	94.34	58.09
WELL # PO-2													
06/08/89	-	-	-	-	-	-	-	-	NP	25.02	0.00	87.87	62.85
03/26/90	-	-	-	-	-	-	-	-	NP	25.08	0.00	87.87	62.79
02/19/91	-	-	-	-	-	-	-	-	NP	25.33	0.00	87.87	62.54
08/01/91	-	-	-	-	-	-	-	-	NP	24.88	0.00	87.82	62.94
	WELL DESTROYED												
WELL # PO-3	Area = OFF-SITE S												
06/08/89	-	-	-	-	-	-	-	-	NP	30.25	0.00	86.92	56.67
03/26/90	-	-	-	-	-	-	-	-	NP	30.06	0.00	86.92	56.86
02/19/91	-	-	-	-	-	-	-	-	NP	30.33	0.00	86.92	56.59
03/02/92	-	-	-	-	-	-	-	-	NP	30.38	0.00	86.89	56.51
08/22/92	-	-	-	-	-	-	-	-	NP	30.45	0.00	86.89	56.44
02/27/93	-	-	-	-	-	-	-	-	NP	26.00	0.00	86.89	60.89
04/18/94	-	-	-	-	-	-	-	-	NP	28.71	0.00	86.89	58.18
04/24/95	-	-	-	-	-	-	-	-	NP	25.93	0.00	86.89	60.96
04/08/96	-	-	-	-	-	-	-	-	NP	30.40	0.00	86.89	56.49
04/28/97	-	-	-	-	-	-	-	-	NP	29.48	0.00	86.89	57.41
04/22/98	-	-	-	-	-	-	-	-	NP	25.02	0.00	86.89	61.87
04/28/99	-	-	-	-	-	-	-	-	NP	29.12	0.00	86.89	57.77
04/12/00	-	-	-	-	-	-	-	-	DRY	-	-	86.89	-
04/04/01	-	-	-	-	-	-	-	-	-	19.61	0.00	86.89	67.28
11/01/02	-	-	-	-	-	-	-	-	DRY	-	-	86.89	-
04/01/03	-	-	-	-	-	-	-	-	NP	26.42	0.00	86.89	60.47
11/01/03	-	-	-	-	-	-	-	-	NP	30.38	0.00	86.89	56.51
03/30/04	-	-	-	-	-	-	-	-	NP	28.12	0.00	86.89	58.77
11/22/04	-	-	-	-	-	-	-	-	NP	26.38	0.00	86.89	60.51
03/29/05	-	-	-	-	-	-	-	-	NP	24.45	0.00	86.89	62.44
12/06/05	-	-	-	-	-	-	-	-	NP	26.25	0.00	86.89	60.64
04/11/06	-	-	-	-	-	-	-	-	NP	29.22	0.00	86.89	57.67
12/04/06	-	-	-	-	-	-	-	-	NP	29.74	0.00	86.89	57.15
05/01/07	-	-	-	-	-	-	-	-	DRY	-	-	86.89	-
09/25/07	-	-	-	-	-	-	-	-	DRY	-	-	86.89	-
03/27/08	-	-	-	-	-	-	-	-	NP	29.80	0.00	86.89	57.09
09/22/08	-	-	-	-	-	-	-	-	DRY	-	-	86.89	-
03/26/09	-	-	-	-	-	-	-	-	NP	29.72	0.00	86.89	57.17
10/12/09	-	-	-	-	-	-	-	-	NP	29.85	0.00	86.89	57.04
05/04/10	-	-	-	-	-	-	-	-	NP	28.95	0.00	86.89	57.94
10/06/10	-	-	-	-	-	-	-	-	NP	30.40	0.00	86.89	56.49
03/30/11	-	-	-	-	-	-	-	-	NP	28.91	0.00	86.89	57.98
09/28/11	-	-	-	-	-	-	-	-	NP	26.35	0.00	86.89	60.54
04/03/12	-	-	-	-	-	-	-	-	NP	29.83	0.00	86.89	57.06
09/26/12	-	-	-	-	-	-	-	-	DRY	-	-	86.89	-
03/20/13	-	-	-	-	-	-	-	-	DRY	-	-	86.89	-
09/23/13	-	-	-	-	-	-	-	-	DRY	-	-	86.89	-
04/01/14	-	-	-	-	-	-	-	-	DRY	-	-	86.89	-
WELL # PO-4	Area = OFF-SITE S												
06/08/89	-	-	-	-	-	-	-	-	21.25	32.75	11.50	92.25	68.18
09/19/89	-	-	-	-	-	-	-	-	21.39	23.80	2.41	92.25	70.27
01/10/90	-	-	-	-	-	-	-	-	21.43	23.92	2.49	92.25	70.21
02/19/91	-	-	-	-	-	-	-	-	22.64	24.13	1.49	92.25	69.24
03/02/92	-	-	-	-	-	-	-	-	21.63	24.00	2.37	85.19	62.98
02/27/93	-	-	-	-	-	-	-	-	22.11	22.37	0.26	85.19	63.02
04/18/94	-	-	-	-	-	-	-	-	20.25	20.54	0.29	85.19	64.87
04/24/95	-	-	-	-	-	-	-	-	NP	23.52	0.00	85.19	61.67
04/08/96	-	-	-	-	-	-	-	-	21.46	21.92	0.46	85.19	63.62
04/29/97	-	-	-	-	-	-	-	-	20.80	20.97	0.17	85.19	64.35
04/21/98	-	-	-	-	-	-	-	-	19.35	19.87	0.52	85.19	65.71
04/27/99	-	-	-	-	-	-	-	-	20.65	20.85	0.20	85.19	64.49
11/13/01	-	-	-	-	-	-	-	-	NP	20.72	0.00	85.13	64.41
04/01/02	-	-	-	-	-	-	-	-	NP	21.26	0.00	85.13	63.87
11/01/02	-	-	-	-	-	-	-	-	21.70	21.74	0.04	85.13	63.42
11/01/03	-	-	-	-	-	-	-	-	NO ACCESS	-	-	85.13	-
03/30/04	-	-	-	-	-	-	-	-	NO ACCESS	-	-	85.13	-
11/22/04	-	-	-	-	-	-	-	-	NO ACCESS	-	-	85.13	-
12/07/05	-	-	-	-	-	-	-	-	-	20.10	0.00	85.13	65.03
04/11/06	-	-	-	-	-	-	-	-	20.55	20.70	0.15	85.13	64.54

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
12/04/06	-	-	-	-	-	-	-	-	20.77	20.55	-0.22	85.13	64.41
05/01/07	-	-	-	-	-	-	-	-	NP	20.32	0.00	85.13	64.81
09/27/07	-	-	-	-	-	-	-	-	NP	21.20	0.00	85.13	63.93
03/27/08	-	-	-	-	-	-	-	-	21.22	22.35	1.13	85.13	63.83
09/22/08	-	-	-	-	-	-	-	-	21.40	22.80	1.40	85.13	63.39
03/26/09	-	-	-	-	-	-	-	-	21.38	22.55	1.17	85.13	63.46
10/12/09	-	-	-	-	-	-	-	-	21.44	23.20	1.76	85.13	63.28
05/04/10	-	-	-	-	-	-	-	-	21.20	22.05	0.85	85.13	63.72
10/06/10	-	-	-	-	-	-	-	-	21.38	22.90	1.52	85.13	63.36
03/30/11	-	-	-	-	-	-	-	-	21.00	21.50	0.50	85.13	64.01
09/28/11	-	-	-	-	-	-	-	-	21.15	21.80	0.65	85.13	63.82
04/03/12	-	-	-	-	-	-	-	-	21.32	22.98	1.66	85.13	63.40
09/26/12	-	-	-	-	-	-	-	-	21.50	23.20	1.70	85.13	63.21
03/20/13	-	-	-	-	-	-	-	-	21.68	23.68	2.00	85.13	62.96
09/23/13	-	-	-	-	-	-	-	-	21.98	24.12	2.16	85.13	62.64
04/01/14	-	-	-	-	-	-	-	-	NP	21.88	0.00	85.13	63.25
WELL # PO-5	Area = OFF-SITE S												
06/08/89	-	-	-	-	-	-	-	-	NP	37.88	0.00	79.66	41.78
03/28/90	-	-	-	-	-	-	-	-	NP	38.54	0.00	79.66	41.12
02/19/91	-	-	-	-	-	-	-	-	NP	39.22	0.00	79.66	40.44
03/02/92	-	-	-	-	-	-	-	-	NP	39.92	0.00	79.63	39.71
05/28/92	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	39.90	0.00	79.63	39.73
08/22/92	-	-	-	-	-	-	-	-	NP	40.00	0.00	79.63	39.63
11/20/92	-	-	-	-	-	-	-	-	NP	40.00	0.00	79.63	39.63
02/27/93	-	-	-	-	-	-	-	-	NP	40.00	0.00	79.63	39.63
04/18/94	-	-	-	-	-	-	-	-	NP	37.75	0.00	79.63	41.88
04/24/95	-	-	ND	ND	ND	ND	-	-	NP	37.96	0.00	79.63	41.67
04/08/96	-	-	-	-	-	-	-	-	NP	37.21	0.00	79.63	42.42
04/28/97	-	-	-	-	-	-	-	-	NP	36.54	0.00	79.63	43.09
04/22/98	-	-	1.0	-	-	-	-	-	NP	35.93	0.00	79.63	43.70
04/29/99	-	-	-	-	-	-	-	-	NP	33.82	0.00	79.63	45.81
04/12/00	-	-	-	-	-	-	-	-	NP	34.13	0.00	79.63	45.50
04/04/01	-	-	-	-	-	-	-	-	NP	35.04	0.00	79.63	44.59
04/01/02	-	-	66	0.0066	0.0075	0.039	-	-	NP	35.42	0.00	79.63	44.21
08/07/02	0.13	-	13	20	1.7	11	-	-	-	-	-	-	-
04/01/03	-	-	-	-	-	-	-	-	NP	36.14	0.00	79.63	43.49
11/01/03	-	-	-	-	-	-	-	-	DRY	-	-	79.63	-
03/30/04	-	-	-	-	-	-	-	-	NP	36.20	0.00	79.63	43.43
11/22/04	-	-	-	-	-	-	-	-	DRY	-	-	79.63	-
03/29/05	-	-	-	-	-	-	-	-	DRY	-	-	79.63	-
12/08/05	-	-	-	-	-	-	-	-	NP	35.86	0.00	79.63	43.77
04/11/06	-	-	-	-	-	-	-	-	NP	38.48	0.00	79.63	41.15
12/04/06	-	-	-	-	-	-	-	-	NP	35.32	0.00	79.63	44.31
05/01/07	-	-	-	-	-	-	-	-	NP	35.42	0.00	79.63	44.21
09/26/07	-	-	-	-	-	-	-	-	DRY	-	-	79.63	-
03/27/08	-	-	-	-	-	-	-	-	NP	35.75	0.00	79.63	43.88
09/22/08	-	-	-	-	-	-	-	-	DRY	-	-	79.63	-
03/26/09	-	-	-	-	-	-	-	-	DRY	-	-	79.63	-
10/12/09	-	-	-	-	-	-	-	-	DRY	-	-	79.63	-
05/04/10	-	-	-	-	-	-	-	-	DRY	-	-	79.63	-
10/06/10	-	-	-	-	-	-	-	-	DRY	-	-	79.63	-
03/30/11	-	-	-	-	-	-	-	-	DRY	-	-	79.63	-
09/28/11	-	-	-	-	-	-	-	-	DRY	-	-	79.63	-
04/03/12	-	-	-	-	-	-	-	-	DRY	-	-	79.63	-
09/26/12	-	-	-	-	-	-	-	-	DRY	-	-	79.63	-
03/20/13	-	-	-	-	-	-	-	-	DRY	-	-	79.63	-
09/25/13	-	-	-	-	-	-	-	-	-	-	-	-	-
04/02/14	-	-	-	-	-	-	-	-	-	-	-	-	-
WELL # PO-6													
06/08/89	-	-	-	-	-	-	-	-	NP	40.27	0.00	84.21	43.94
03/26/90	-	-	-	-	-	-	-	-	NP	40.75	0.00	84.21	43.46
08/28/90	-	-	-	-	-	-	-	-	NP	41.01	0.00	84.21	43.20
	WELL DESTROYED												
WELL # PO-7	Area = OFF-SITE S												
06/08/89	-	-	-	-	-	-	-	-	NP	34.63	0.00	80.26	45.63
03/26/90	-	-	-	-	-	-	-	-	NP	35.46	0.00	80.26	44.80
02/19/91	-	-	-	-	-	-	-	-	NP	36.35	0.00	80.26	43.91
11/20/91	-	-	-	-	-	-	-	-	NP	36.31	0.00	80.19	43.88
03/02/92	-	-	-	-	-	-	-	-	NP	36.29	0.00	80.19	43.90
02/27/93	-	-	-	-	-	-	-	-	NP	35.01	0.00	80.19	45.18
04/18/94	-	-	-	-	-	-	-	-	NP	31.90	0.00	80.19	48.29
05/02/95	-	-	-	-	-	-	-	-	NP	32.30	0.00	80.19	47.89
04/11/96	-	-	-	-	-	-	-	-	NP	32.65	0.00	80.19	47.54
04/28/97	-	-	-	-	-	-	-	-	NP	32.02	0.00	80.19	48.17
04/22/98	-	-	-	-	-	-	-	-	NP	30.62	0.00	80.19	49.57
11/02/98	-	-	-	-	-	-	-	-	NP	30.54	0.00	80.19	49.65
04/29/99	-	-	-	-	-	-	-	-	NP	30.78	0.00	80.19	49.41
04/12/00	-	-	-	-	-	-	-	-	NP	31.73	0.00	80.19	48.46
04/04/01	-	-	-	-	-	-	-	-	NP	30.66	0.00	80.19	49.53
04/01/02	-	-	-	-	-	-	-	-	NP	31.89	0.00	80.19	48.30
11/01/02	-	-	-	-	-	-	-	-	NP	32.88	0.00	80.19	47.31
04/01/03	-	-	-	-	-	-	-	-	NP	31.63	0.00	80.19	48.56

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
11/01/03	-	-	-	-	-	-	-	-	NP	31.94	0.00	80.19	48.25
03/30/04	-	-	-	-	-	-	-	-	NP	31.89	0.00	80.19	48.30
11/22/04	-	-	-	-	-	-	-	-	NP	32.46	0.00	80.19	47.73
03/29/05	-	-	-	-	-	-	-	-	NP	27.21	0.00	80.19	52.98
12/06/05	-	-	-	-	-	-	-	-	NP	28.63	0.00	80.19	51.56
04/11/06	-	-	-	-	-	-	-	-	NP	29.25	0.00	80.19	50.94
12/04/06	-	-	-	-	-	-	-	-	NP	30.05	0.00	80.19	50.14
05/01/07	-	-	-	-	-	-	-	-	NP	30.63	0.00	80.19	49.56
09/25/07	-	-	-	-	-	-	-	-	NP	31.00	0.00	80.19	49.19
03/27/08	-	-	-	-	-	-	-	-	NP	31.02	0.00	80.19	49.17
09/22/08	-	-	-	-	-	-	-	-	NP	31.98	0.00	80.19	48.21
03/26/09	-	-	-	-	-	-	-	-	NP	31.96	0.00	80.19	48.23
10/12/09	-	-	-	-	-	-	-	-	NP	33.20	0.00	80.19	46.99
05/04/10	-	-	-	-	-	-	-	-	NP	32.30	0.00	80.19	47.89
10/06/10	-	-	-	-	-	-	-	-	NP	32.91	0.00	80.19	47.28
03/30/11	-	-	-	-	-	-	-	-	NP	32.50	0.00	80.19	47.69
09/28/11	-	-	-	-	-	-	-	-	NP	32.83	0.00	80.19	47.36
04/03/12	-	-	-	-	-	-	-	-	NP	34.22	0.00	80.19	45.97
09/26/12	-	-	-	-	-	-	-	-	NP	34.91	0.00	80.19	45.28
03/20/13	-	-	-	-	-	-	-	-	NP	34.62	0.00	80.19	45.57
09/23/13	-	-	-	-	-	-	-	-	NP	35.35	0.00	80.19	44.84
04/01/14	-	-	-	-	-	-	-	-	NP	36.35	0.00	80.19	43.84
WELL # PO-8	Area = OFF-SITE S												
08/18/91	-	-	-	-	-	-	-	-	NP	25.13	0.00	81.40	56.27
03/02/92	-	-	-	-	-	-	-	-	NP	25.25	0.00	81.40	56.15
08/22/92	-	-	-	-	-	-	-	-	NP	25.71	0.00	81.40	55.69
02/27/93	-	-	-	-	-	-	-	-	NP	25.08	0.00	81.40	56.32
04/18/94	-	-	-	-	-	-	-	-	NP	20.71	0.00	81.40	60.69
04/02/95	-	-	-	-	-	-	-	-	NP	20.58	0.00	81.40	60.82
04/08/96	-	-	-	-	-	-	-	-	NP	20.40	0.00	81.40	61.00
04/28/97	-	-	-	-	-	-	-	-	NP	23.46	0.00	81.40	57.94
04/22/98	-	-	-	-	-	-	-	-	NP	20.45	0.00	81.40	60.95
11/02/99	-	-	-	-	-	-	-	-	NP	19.72	0.00	81.40	61.68
04/12/00	-	-	-	-	-	-	-	-	NP	20.32	0.00	81.40	61.08
04/04/01	-	-	-	-	-	-	-	-	NP	25.02	0.00	81.40	56.38
04/01/02	-	-	-	-	-	-	-	-	NP	25.08	0.00	81.40	56.32
11/01/02	-	-	-	-	-	-	-	-	NP	25.21	0.00	81.40	56.19
11/01/03	-	-	-	-	-	-	-	-	NP	25.19	0.00	81.40	56.21
03/30/04	-	-	-	-	-	-	-	-	NP	25.18	0.00	81.40	56.22
11/22/04	-	-	-	-	-	-	-	-	NP	25.38	0.00	81.40	56.02
03/29/05	-	-	-	-	-	-	-	-	NP	25.03	0.00	81.40	56.37
12/07/05	-	-	-	-	-	-	-	-	NP	23.23	0.00	81.40	58.17
04/11/06	-	-	-	-	-	-	-	-	NP	25.00	0.00	81.40	56.40
12/04/06	-	-	-	-	-	-	-	-	NP	25.07	0.00	81.40	56.33
05/01/07	-	-	-	-	-	-	-	-	NP	25.20	0.00	81.40	56.20
09/27/07	-	-	-	-	-	-	-	-	NP	25.12	0.00	81.40	56.28
03/27/08	-	-	-	-	-	-	-	-	NP	25.60	0.00	81.40	55.80
09/22/08	-	-	-	-	-	-	-	-	NP	25.20	0.00	81.40	56.20
03/26/09	-	-	-	-	-	-	-	-	NP	25.23	0.00	81.40	56.17
10/12/09	-	-	-	-	-	-	-	-	NP	25.20	0.00	81.40	56.20
05/04/10	-	-	-	-	-	-	-	-	NP	25.22	0.00	81.40	56.18
10/06/10	-	-	-	-	-	-	-	-	NP	25.20	0.00	81.40	56.20
03/30/11	-	-	-	-	-	-	-	-	NP	25.13	0.00	81.40	56.27
09/28/11	-	-	-	-	-	-	-	-	NP	25.12	0.00	81.40	56.28
04/03/12	-	-	-	-	-	-	-	-	NP	25.05	0.00	81.40	56.35
09/26/12	-	-	-	-	-	-	-	-	NP	20.55	0.00	81.40	60.85
03/20/13	-	-	-	-	-	-	-	-	NP	25.10	0.00	81.40	56.30
09/23/13	-	-	-	-	-	-	-	-	NP	25.14	0.00	81.40	56.26
04/01/14	-	-	-	-	-	-	-	-	NP	25.18	0.00	81.40	56.22
WELL # PO-9	Area = OFF-SITE S												
08/18/91	-	-	-	-	-	-	-	-	NP	32.08	0.00	75.48	43.40
03/02/92	-	-	-	-	-	-	-	-	NP	32.46	0.00	75.48	43.02
05/28/92	-	-	<1.0	1.0	<1.0	2.0	-	-	NP	32.21	0.00	75.48	43.27
11/20/92	-	-	-	-	-	-	-	-	NP	32.46	0.00	75.48	43.02
02/27/93	-	-	-	-	-	-	-	-	NP	32.22	0.00	75.48	43.26
04/18/94	-	-	-	-	-	-	-	-	NP	31.25	0.00	75.48	44.23
04/24/95	-	-	-	-	-	-	-	-	NP	30.88	0.00	75.48	44.60
04/08/96	-	-	-	-	-	-	-	-	NP	30.42	0.00	75.48	45.06
04/28/97	-	-	-	-	-	-	-	-	NP	29.79	0.00	75.48	45.69
04/22/98	-	-	-	-	-	-	-	-	NP	29.16	0.00	75.48	46.32
04/29/99	-	-	-	-	-	-	-	-	NP	27.49	0.00	75.48	47.99
11/08/00	-	-	-	-	-	-	-	-	NP	28.97	0.00	75.48	46.51
04/04/01	-	-	-	-	-	-	-	-	NP	28.70	0.00	75.48	46.78
04/01/02	-	-	-	-	-	-	-	-	-	29.33	0.00	75.48	46.15
08/07/02	<0.10	-	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-
11/01/02	-	-	-	-	-	-	-	-	NP	30.07	0.00	75.48	45.41
04/01/03	-	-	-	-	-	-	-	-	NP	29.88	0.00	75.48	45.60
11/01/03	-	-	-	-	-	-	-	-	NP	30.19	0.00	75.48	45.29
03/30/04	-	-	-	-	-	-	-	-	NP	30.41	0.00	75.48	45.07
11/22/04	-	-	-	-	-	-	-	-	NP	31.30	0.00	75.48	44.18
03/29/05	-	-	-	-	-	-	-	-	NP	30.53	0.00	75.48	44.95
12/06/05	-	-	-	-	-	-	-	-	NP	29.30	0.00	75.48	46.18
04/11/06	-	-	-	-	-	-	-	-	NP	29.19	0.00	75.48	46.29

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
12/04/06	-	-	-	-	-	-	-	-	NP	29.20	0.00	75.48	46.28
05/01/07	-	-	-	-	-	-	-	-	NP	29.27	0.00	75.48	46.21
09/25/07	-	-	-	-	-	-	-	-	NP	30.00	0.00	75.48	45.48
03/27/08	-	-	-	-	-	-	-	-	NP	30.36	0.00	75.48	45.12
09/22/08	-	-	-	-	-	-	-	-	NP	30.88	0.00	75.48	44.62
03/26/09	-	-	-	-	-	-	-	-	NP	31.15	0.00	75.48	44.33
10/12/09	-	-	-	-	-	-	-	-	NP	31.83	0.00	75.48	43.65
05/04/10	-	-	-	-	-	-	-	-	NP	31.90	0.00	75.48	43.58
10/06/10	-	-	-	-	-	-	-	-	NP	32.14	0.00	75.48	43.34
03/30/11	-	-	-	-	-	-	-	-	NP	32.17	0.00	75.48	43.31
09/28/11	-	-	-	-	-	-	-	-	NP	31.94	0.00	75.48	43.54
04/03/12	-	-	-	-	-	-	-	-	NP	31.83	0.00	75.48	43.66
09/26/12	-	-	-	-	-	-	-	-	NP	31.28	0.00	75.48	44.20
03/20/13									NP	32.20	0.00	75.48	43.28
	WELL DESTROYED												
WELL # PO-10	Area = OFF-SITE S												
08/18/91	-	-	-	-	-	-	-	-	NP	22.22	0.00	85.13	62.91
11/20/91	-	-	-	-	-	-	-	-	NP	22.51	0.00	85.13	62.62
03/02/92	-	-	-	-	-	-	-	-	NP	22.17	0.00	85.13	62.96
05/28/92	-	-	13	2.0	<1.0	27	-	-	NP	21.83	0.00	85.13	63.30
02/27/93	-	-	-	-	-	-	-	-	NP	20.89	0.00	85.13	64.24
04/18/94	-	-	-	-	-	-	-	-	NP	21.69	0.00	85.13	63.44
04/20/95	-	-	-	-	-	-	-	-	NP	20.72	0.00	85.13	64.41
04/08/96	-	-	-	-	-	-	-	-	NP	20.92	0.00	85.13	64.21
04/29/97	-	-	-	-	-	-	-	-	NP	20.73	0.00	85.13	64.40
04/21/98	-	-	-	-	-	-	-	-	NP	19.15	0.00	85.13	65.98
04/27/99	-	-	-	-	-	-	-	-	NP	20.25	0.00	85.13	64.88
04/11/00	-	-	-	-	-	-	-	-	NP	20.47	0.00	85.13	64.66
04/04/01	-	-	-	-	-	-	-	-	NP	20.05	0.00	85.13	65.08
04/01/02	-	-	-	-	-	-	-	-	NP	21.38	0.00	85.13	63.75
11/01/02	-	-	-	-	-	-	-	-	NP	21.89	0.00	85.13	63.24
11/01/03	-	-	-	-	-	-	-	-	NP	21.19	0.00	85.13	63.94
03/30/04	-	-	-	-	-	-	-	-	NP	21.00	0.00	85.13	64.13
11/22/04	-	-	-	-	-	-	-	-	NP	21.47	0.00	85.13	63.66
03/29/05	-	-	-	-	-	-	-	-	NP	19.04	0.00	85.13	66.09
12/07/05	-	-	-	-	-	-	-	-	NP	19.52	0.00	85.13	65.61
04/11/06	-	-	-	-	-	-	-	-	NP	20.07	0.00	85.13	65.06
12/04/06	-	-	-	-	-	-	-	-	NP	20.64	0.00	85.13	64.49
05/01/07	-	-	-	-	-	-	-	-	NP	21.25	0.00	85.13	63.88
09/27/07	-	-	-	-	-	-	-	-	NP	21.65	0.00	85.13	63.48
03/27/08	-	-	-	-	-	-	-	-	NP	21.33	0.00	85.13	63.80
04/02/08	-	-	-	-	-	-	-	-	NP	21.33	0.00	85.13	63.80
09/22/08	-	-	-	-	-	-	-	-	NP	21.35	0.00	85.13	63.78
03/26/09	-	-	-	-	-	-	-	-	NP	21.47	0.00	85.13	63.66
10/12/09	-	-	-	-	-	-	-	-	NP	24.50	0.00	85.13	60.63
05/04/10	-	-	-	-	-	-	-	-	NP	21.05	0.00	85.13	64.08
10/06/10	-	-	-	-	-	-	-	-	NP	21.60	0.00	85.13	63.53
03/30/11	-	-	-	-	-	-	-	-	NP	20.74	0.00	85.13	64.39
09/28/11	-	-	-	-	-	-	-	-	NP	21.00	0.00	85.13	64.13
04/03/12	-	-	-	-	-	-	-	-	NP	21.56	0.00	85.13	63.57
09/26/12	-	-	-	-	-	-	-	-	NP	21.88	0.00	85.13	63.25
03/20/13	-	-	-	-	-	-	-	-	NP	22.18	0.00	85.13	62.95
09/23/13	-	-	-	-	-	-	-	-	NP	22.72	0.00	85.13	62.41
04/01/14	-	-	-	-	-	-	-	-	NP	22.64	0.00	85.13	62.49
WELL # PO-11	Area = OFF-SITE S												
08/18/91	-	-	-	-	-	-	-	-	NP	32.16	0.00	86.29	54.13
03/02/92	-	-	-	-	-	-	-	-	NP	32.42	0.00	86.29	53.87
02/27/93	-	-	-	-	-	-	-	-	NP	32.39	0.00	86.29	53.90
04/18/94	-	-	-	-	-	-	-	-	DRY	-	-	86.29	-
04/20/95	-	-	-	-	-	-	-	-	NP	32.32	0.00	86.29	53.97
04/08/96	-	-	-	-	-	-	-	-	NP	32.31	0.00	86.29	53.98
04/29/97	-	-	-	-	-	-	-	-	NP	32.29	0.00	86.29	54.00
04/22/98	-	-	-	-	-	-	-	-	DRY	-	-	86.29	-
04/29/99	-	-	-	-	-	-	-	-	DRY	-	-	86.29	-
04/12/00	-	-	-	-	-	-	-	-	DRY	-	-	86.29	-
04/04/01	-	-	-	-	-	-	-	-	NP	32.25	0.00	86.29	54.04
04/01/02	-	-	-	-	-	-	-	-	NP	32.28	0.00	86.29	54.01
11/01/02	-	-	-	-	-	-	-	-	NP	18.76	0.00	86.29	67.53
04/01/03	-	-	-	-	-	-	-	-	NP	32.13	0.00	86.29	54.16
11/01/03	-	-	-	-	-	-	-	-	NP	32.16	0.00	86.29	54.13
03/30/04	-	-	-	-	-	-	-	-	NP	32.15	0.00	86.29	54.14
11/22/04	-	-	-	-	-	-	-	-	NP	32.14	0.00	86.29	54.15
03/29/05	-	-	-	-	-	-	-	-	NP	32.14	0.00	86.29	54.15
12/06/05	-	-	-	-	-	-	-	-	NP	32.14	0.00	86.29	54.15
04/11/06	-	-	-	-	-	-	-	-	NP	32.09	0.00	86.29	54.20
12/04/06	-	-	-	-	-	-	-	-	NP	32.10	0.00	86.29	54.19
05/01/07	-	-	-	-	-	-	-	-	NP	32.12	0.00	86.29	54.17
09/25/07	-	-	-	-	-	-	-	-	NP	32.08	0.00	86.29	54.21
03/27/08	-	-	-	-	-	-	-	-	NP	32.08	0.00	86.29	54.21
09/22/08	-	-	-	-	-	-	-	-	NP	32.10	0.00	86.29	54.19
03/26/09	-	-	-	-	-	-	-	-	NP	32.12	0.00	86.29	54.17
10/12/09	-	-	-	-	-	-	-	-	NP	32.11	0.00	86.29	54.18
05/04/10	-	-	-	-	-	-	-	-	NP	32.10	0.00	86.29	54.19
10/06/10	-	-	-	-	-	-	-	-	NP	32.10	0.00	86.29	54.19

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
03/30/11	-	-	-	-	-	-	-	-	NP	32.11	0.00	86.29	54.18
09/26/11	-	-	-	-	-	-	-	-	NP	32.10	0.00	86.29	54.19
04/03/12	-	-	-	-	-	-	-	-	NP	32.08	0.00	86.29	54.21
09/26/12	-	-	-	-	-	-	-	-	NP	32.04	0.00	86.29	54.25
03/20/13	-	-	-	-	-	-	-	-	NP	32.05	0.00	86.29	54.24
09/23/13	-	-	-	-	-	-	-	-	NP	32.13	0.00	86.29	54.16
04/01/14	-	-	-	-	-	-	-	-	NP	32.10	0.00	86.29	54.19
WELL # PO-12	Area = OFF-SITE S												
05/28/92	-	-	<1.0	<1.0	<1.0	<1.0			NP	28.29	0.00	79.76	51.47
08/22/92	-	-	-	-	-	-	-	-	NP	28.33	0.00	79.76	51.43
02/27/93	-	-	-	-	-	-	-	-	NP	28.17	0.00	79.76	51.59
04/18/94	-	-	-	-	-	-	-	-	NP	23.33	0.00	79.76	56.43
04/24/95	-	-	-	-	-	-	-	-	NP	23.33	0.00	79.76	56.43
04/08/96	-	-	-	-	-	-	-	-	NP	23.00	0.00	79.76	56.76
04/28/97	-	-	-	-	-	-	-	-	NP	22.42	0.00	79.76	57.34
04/22/98	-	-	-	-	-	-	-	-	NP	20.27	0.00	79.76	59.49
11/02/98	-	-	-	-	-	-	-	-	NP	20.03	0.00	79.76	59.73
04/29/99	-	-	-	-	-	-	-	-	NP	20.86	0.00	79.76	58.90
04/12/00	-	-	-	-	-	-	-	-	NP	22.43	0.00	79.76	57.33
04/04/01	-	-	-	-	-	-	-	-	NP	22.20	0.00	79.76	57.56
04/01/02	-	-	-	-	-	-	-	-	NP	23.04	0.00	79.76	56.72
08/07/02	<0.10	-	<0.5	<0.5	<0.5	<1.5	-	-	-	-	-	-	-
11/01/02	-	-	-	-	-	-	-	-	NP	23.66	0.00	79.76	56.10
04/01/03	-	-	-	-	-	-	-	-	NP	24.02	0.00	79.76	55.74
11/01/03	-	-	-	-	-	-	-	-	NP	24.20	0.00	79.76	55.56
03/30/04	-	-	-	-	-	-	-	-	NP	24.48	0.00	79.76	55.28
11/22/04	-	-	-	-	-	-	-	-	NP	24.99	0.00	79.76	54.77
03/29/05	-	-	-	-	-	-	-	-	NP	23.93	0.00	79.76	55.83
12/06/05	-	-	-	-	-	-	-	-	NP	21.38	0.00	79.76	58.38
04/11/06	-	-	-	-	-	-	-	-	NP	22.12	0.00	79.76	57.64
12/04/06	-	-	-	-	-	-	-	-	NP	22.36	0.00	79.76	57.40
05/01/07	-	-	-	-	-	-	-	-	NP	23.48	0.00	79.76	56.28
09/25/07	-	-	-	-	-	-	-	-	NP	23.85	0.00	79.76	55.91
03/27/08	-	-	-	-	-	-	-	-	NP	24.18	0.00	79.76	55.58
09/22/08	-	-	-	-	-	-	-	-	NP	24.38	0.00	79.76	55.38
03/26/09	-	-	-	-	-	-	-	-	NP	24.52	0.00	79.76	55.24
10/12/09	-	-	-	-	-	-	-	-	NP	24.07	0.00	79.76	55.69
05/04/10	-	-	-	-	-	-	-	-	NP	25.17	0.00	79.76	54.59
10/06/10	-	-	-	-	-	-	-	-	NP	25.25	0.00	79.76	54.51
03/30/11	-	-	-	-	-	-	-	-	NP	25.27	0.00	79.76	54.49
09/28/11	-	-	-	-	-	-	-	-	NP	24.65	0.00	79.76	55.11
04/03/12	-	-	-	-	-	-	-	-	NP	24.84	0.00	79.76	54.92
09/26/12	-	-	-	-	-	-	-	-	NP	25.15	0.00	79.76	54.61
03/20/13	-	-	-	-	-	-	-	-	NP	25.36	0.00	79.76	54.40
09/23/13	-	-	-	-	-	-	-	-	NP	25.64	0.00	79.76	54.12
04/01/14	-	-	-	-	-	-	-	-	NP	36.28	0.00	79.76	43.48
WELL # PO-13	Area = OFF-SITE S												
05/29/92	-	-	-	-	-	-	-	-	DRY	-	-	81.32	-
02/27/93	-	-	-	-	-	-	-	-	NP	44.81	0.00	81.32	36.51
04/18/94	-	-	-	-	-	-	-	-	NP	44.67	0.00	81.32	36.65
04/24/95	-	-	-	-	-	-	-	-	NP	44.63	0.00	81.32	36.69
04/08/96	-	-	-	-	-	-	-	-	NP	43.58	0.00	81.32	37.74
04/28/97	-	-	-	-	-	-	-	-	NP	44.67	0.00	81.32	36.65
04/22/98	-	-	-	-	-	-	-	-	NP	44.67	0.00	81.32	36.65
04/29/99	-	-	-	-	-	-	-	-	NP	44.59	0.00	81.32	36.73
04/12/00	-	-	-	-	-	-	-	-	NP	44.62	0.00	81.32	36.70
04/04/01	-	-	-	-	-	-	-	-	NP	44.65	0.00	81.32	36.67
04/01/02	-	-	-	-	-	-	-	-	NP	44.67	0.00	81.32	36.65
08/07/02	0.16	-	8.5	14	2.8	18	-	-	-	-	-	-	-
11/01/02	-	-	-	-	-	-	-	-	NP	45.09	0.00	81.32	36.23
04/01/03	-	-	-	-	-	-	-	-	NP	45.07	0.00	81.32	36.25
11/01/03	-	-	-	-	-	-	-	-	NP	45.08	0.00	81.32	36.24
03/30/04	-	-	-	-	-	-	-	-	NP	45.07	0.00	81.32	36.25
11/22/04	-	-	-	-	-	-	-	-	NP	45.04	0.00	81.32	36.28
03/29/05	-	-	-	-	-	-	-	-	NP	45.05	0.00	81.32	36.27
12/06/05	-	-	-	-	-	-	-	-	NP	45.05	0.00	81.32	36.27
04/11/06	-	-	-	-	-	-	-	-	NP	45.05/dry?	0.00	81.32	81.32
12/04/06	-	-	-	-	-	-	-	-	NP	45.05	0.00	81.32	36.27
05/01/07	-	-	-	-	-	-	-	-	NP	45.06	0.00	81.32	36.26
09/25/07	-	-	-	-	-	-	-	-	NP	45.15	0.00	81.32	36.17
03/27/08	-	-	-	-	-	-	-	-	NP	45.05	0.00	81.32	36.27
09/22/08	-	-	-	-	-	-	-	-	NP	45.05	0.00	81.32	36.27
03/26/09	-	-	-	-	-	-	-	-	NP	45.05	0.00	81.32	36.27
10/12/09	-	-	-	-	-	-	-	-	NP	45.07	0.00	81.32	36.25
05/04/10	-	-	-	-	-	-	-	-	NP	45.09	0.00	81.32	36.23
10/06/10	-	-	-	-	-	-	-	-	NP	45.05	0.00	81.32	36.23
03/30/11	-	-	-	-	-	-	-	-	NP	45.04	0.00	81.32	36.23
09/28/11	-	-	-	-	-	-	-	-	NP	45.12	0.00	81.32	36.23
04/03/12	-	-	-	-	-	-	-	-	NP	45.05	0.00	81.32	36.23
09/26/12	-	-	-	-	-	-	-	-	NP	45.05	0.00	81.32	36.23

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	DEPTH TO PRODUCT (feet)	DEPTH TO GROUNDWATER (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
03/20/13	-	-	-	-	-	-	-	-	NP	45.05	0.00	81.32	36.23
09/23/13	-	-	-	-	-	-	-	-	NP	45.03	0.00	81.32	36.23
04/01/14	-	-	-	-	-	-	-	-	NP	45.04	0.00	81.32	36.23
WELL # PO-14 Area = OFF-SITE S													
05/28/92	-	-	<1.0	<1.0	<1.0	<1.0			NP	34.68	0.00	79.03	44.45
11/20/92	-	-	-	-	-	-	-	-	NP	34.71	0.00	79.03	44.32
02/27/93	-	-	-	-	-	-	-	-	NP	34.67	0.00	79.03	44.36
04/18/94	-	-	-	-	-	-	-	-	NP	34.58	0.00	79.03	44.45
04/24/95	-	-	-	-	-	-	-	-	NP	33.23	0.00	79.03	45.80
04/08/96	-	-	-	-	-	-	-	-	NP	32.63	0.00	79.03	46.40
04/28/97	-	-	-	-	-	-	-	-	NP	32.19	0.00	79.03	46.84
04/22/98	-	-	-	-	-	-	-	-	NP	31.71	0.00	79.03	47.32
04/29/99	-	-	-	-	-	-	-	-	NP	29.03	0.00	79.03	50.00
04/12/00	-	-	-	-	-	-	-	-	NP	29.65	0.00	79.03	49.38
04/04/01	-	-	-	-	-	-	-	-	NP	30.53	0.00	79.03	48.50
04/01/02	-	-	-	-	-	-	-	-	NP	30.96	0.00	79.03	48.07
08/07/02	<0.10	-	2.3	3.6	1.5	5.9	-	-	-	-	-	-	-
11/01/02	-	-	-	-	-	-	-	-	NP	31.46	0.00	79.03	47.57
04/01/03	-	-	-	-	-	-	-	-	NP	31.62	0.00	79.03	47.41
11/01/03	-	-	-	-	-	-	-	-	NP	31.94	0.00	79.03	47.09
03/30/04	-	-	-	-	-	-	-	-	NP	32.12	0.00	79.03	46.91
11/22/04	-	-	-	-	-	-	-	-	NP	32.73	0.00	79.03	46.30
03/29/05	-	-	-	-	-	-	-	-	NP	32.45	0.00	79.03	46.58
12/06/05	-	-	-	-	-	-	-	-	NP	32.45	0.00	79.03	46.58
04/11/06	-	-	-	-	-	-	-	-	NP	30.58	0.00	79.03	48.45
12/04/06	-	-	-	-	-	-	-	-	NP	30.45	0.00	79.03	48.58
05/01/07	-	-	-	-	-	-	-	-	NP	30.67	0.00	79.03	48.36
09/25/07	-	-	-	-	-	-	-	-	NP	31.31	0.00	79.03	47.72
03/27/08	-	-	-	-	-	-	-	-	NP	31.78	0.00	79.03	47.25
09/22/08	-	-	-	-	-	-	-	-	NP	32.19	0.00	79.03	46.84
03/26/09	-	-	-	-	-	-	-	-	NP	32.48	0.00	79.03	46.55
10/12/09	-	-	-	-	-	-	-	-	NP	32.88	0.00	79.03	46.15
05/04/10	-	-	-	-	-	-	-	-	NP	33.18	0.00	79.03	45.85
10/06/10	-	-	-	-	-	-	-	-	NP	33.42	0.00	79.03	45.61
03/30/11	-	-	-	-	-	-	-	-	NP	33.58	0.00	79.03	45.45
09/28/11	-	-	-	-	-	-	-	-	NP	33.40	0.00	79.03	45.63
04/03/12	-	-	-	-	-	-	-	-	NP	33.17	0.00	79.03	45.86
09/26/12	-	-	-	-	-	-	-	-	NP	33.30	0.00	79.03	45.73
03/20/13	-	-	-	-	-	-	-	-	NP	33.54	0.00	79.03	45.49
09/23/13	-	-	-	-	-	-	-	-	NP	33.79	0.00	79.03	45.24
04/01/14	-	-	-	-	-	-	-	-	NP	34.04	0.00	79.03	44.99
WELL # PO-15													
05/28/92	-	-	<1.0	<1.0	<1.0	<1.0			NP	18.40	0.00	87.70	69.30
02/27/93	-	-	-	-	-	-	-	-	NP	17.75	0.00	87.70	69.95
04/18/94	-	-	-	-	-	-	-	-	NP	17.08	0.00	87.70	70.62
04/22/95	-	-	-	-	-	-	-	-	NP	17.03	0.00	87.70	70.67
04/09/96	-	-	-	-	-	-	-	-	NP	17.04	0.00	87.70	70.66
04/28/97	-	-	-	-	-	-	-	-	NP	17.47	0.00	87.70	70.23
04/23/98	-	-	-	-	-	-	-	-	NP	16.53	0.00	87.70	71.17
04/26/99	-	-	-	-	-	-	-	-	NP	17.21	0.00	87.70	70.49
04/10/00	-	-	-	-	-	-	-	-	NP	17.77	0.00	87.70	69.93
04/06/01	-	-	-	-	-	-	-	-	NP	17.64	0.00	87.70	70.06
04/01/02	-	-	-	-	-	-	-	-	NP	18.34	0.00	87.70	69.36
08/07/02	<0.10	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
11/01/02	-	-	-	-	-	-	-	-	NP	18.76	0.00	87.70	68.94
04/01/03	-	-	-	-	-	-	-	-	NP	18.10	0.00	87.70	69.60
11/01/03	-	-	-	-	-	-	-	-	NP	18.15	0.00	87.70	69.55
03/30/04	-	-	-	-	-	-	-	-	NP	18.02	0.00	87.70	69.68
11/22/04	-	-	-	-	-	-	-	-	NP	18.16	0.00	87.70	69.54
03/29/05	-	-	-	-	-	-	-	-	NP	17.04	0.00	87.70	70.66
12/07/05	-	-	-	-	-	-	-	-	NP	17.74	0.00	87.70	69.96
04/11/06	-	-	-	-	-	-	-	-	NP	17.83	0.00	87.70	69.87
12/05/06	-	-	-	-	-	-	-	-	NP	18.58	0.00	87.70	69.12
05/01/07	-	-	-	-	-	-	-	-	NP	18.85	0.00	87.70	68.85
09/25/07	-	-	-	-	-	-	-	-	NP	19.15	0.00	87.70	68.55
03/27/08	-	-	-	-	-	-	-	-	NP	19.23	0.00	87.70	68.47
09/22/08	-	-	-	-	-	-	-	-	NP	19.42	0.00	87.70	68.28
03/26/09	-	-	-	-	-	-	-	-	NP	19.33	0.00	87.70	68.37
10/12/09	-	-	-	-	-	-	-	-	NO ACCESS	-	-	87.70	-
05/28/09	WELL DESTROYED												
WELL # PO-16 Area = OFF-SITE S													
05/28/92	-	-	-	-	-	-	-	-	24.35	34.00	9.65	80.37	53.66
02/27/93	-	-	-	-	-	-	-	-	24.29	ND	-24.29	80.37	-
11/01/93	-	-	-	-	-	-	-	-	34.42	34.94	0.52	80.37	45.82
04/18/94	-	-	-	-	-	-	-	-	27.67	ND	-27.67	80.37	-
05/02/95	-	-	-	-	-	-	-	-	34.40	ND	-34.40	80.37	-
04/08/96	-	-	-	-	-	-	-	-	24.08	33.65	9.59	80.37	53.96
04/28/97	-	-	-	-	-	-	-	-	24.04	31.98	7.94	80.37	54.38
04/22/98	-	-	-	-	-	-	-	-	21.31	33.11	11.80	80.37	56.17
11/02/98	-	-	-	-	-	-	-	-	20.35	28.82	8.47	80.37	57.94
04/29/99	-	-	-	-	-	-	-	-	21.13	28.65	7.52	80.37	57.40
04/12/00	-	-	-	-	-	-	-	-	23.52	28.93	5.41	80.37	55.52

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
04/04/01	-	-	-	-	-	-	-	-	22.98	24.06	1.08	80.37	57.13
04/01/02	-	-	-	-	-	-	-	-	24.10	24.12	0.02	80.37	56.27
08/07/02	190	-	18,000	31,000	3,300	21,000	-	-	-	-	-	-	-
11/01/02	-	-	-	-	-	-	-	-	24.57	24.63	0.06	80.37	55.79
04/01/03	-	-	-	-	-	-	-	-	25.11	25.17	0.06	80.37	55.25
11/01/03	-	-	-	-	-	-	-	-	24.18	24.45	0.27	80.37	56.12
03/30/04	-	-	-	-	-	-	-	-	25.21	25.27	0.06	80.37	55.15
11/22/04	-	-	-	-	-	-	-	-	26.44	26.46	0.02	80.37	53.93
03/29/05	-	-	-	-	-	-	-	-	22.68	22.66	0.08	80.37	57.77
12/06/05	-	-	-	-	-	-	-	-	21.24	21.54	0.30	80.37	59.06
04/11/06	-	-	-	-	-	-	-	-	22.07	22.64	0.57	80.37	58.16
12/04/06	-	-	-	-	-	-	-	-	22.81	23.02	0.21	80.37	57.51
05/01/07	-	-	-	-	-	-	-	-	23.24	23.39	0.15	80.37	57.09
09/25/07	-	-	-	-	-	-	-	-	23.44	23.65	0.21	80.37	56.88
03/27/08	-	-	-	-	-	-	-	-	23.03	23.35	0.32	80.37	57.26
09/22/08	-	-	-	-	-	-	-	-	22.93	23.15	0.22	80.37	57.39
03/26/09	-	-	-	-	-	-	-	-	22.98	23.33	0.35	80.37	57.30
10/12/09	-	-	-	-	-	-	-	-	23.60	24.11	0.51	80.37	56.65
05/04/10	-	-	-	-	-	-	-	-	23.38	23.82	0.44	80.37	56.88
10/06/10	-	-	-	-	-	-	-	-	23.58	23.90	0.32	80.37	56.71
03/30/11	-	-	-	-	-	-	-	-	22.52	22.58	0.06	80.37	57.84
09/28/11	-	-	-	-	-	-	-	-	22.25	22.45	0.20	80.37	58.07
04/03/12	-	-	-	-	-	-	-	-	22.84	23.05	0.21	80.37	57.48
09/26/12	-	-	-	-	-	-	-	-	23.45	23.48	0.03	80.37	56.91
03/20/13	-	-	-	-	-	-	-	-	23.51	23.53	0.02	80.37	56.86
09/23/13	-	-	-	-	-	-	-	-	NP	24.06	0.00	80.37	56.31
04/01/14	-	-	-	-	-	-	-	-	24.24	24.26	0.02	80.37	56.13
WELL # PO-17	Area = OFF-SITE S												
05/28/92	-	-	<1.0	<1.0	<1.0	<1.0			NP	26.33	0.00	86.92	60.59
08/22/92	-	-	-	-	-	-	-	-	NP	26.27	0.00	86.92	60.65
02/27/93	-	-	-	-	-	-	-	-	NP	25.12	0.00	86.92	61.80
04/18/94	-	-	-	-	-	-	-	-	NP	25.33	0.00	86.92	61.59
04/24/95	-	-	-	-	-	-	-	-	NP	23.75	0.00	86.92	63.17
04/08/96	-	-	-	-	-	-	-	-	NP	25.27	0.00	86.92	61.65
05/15/97	-	-	-	-	-	-	-	-	NP	25.29	0.00	86.92	61.63
04/22/98	-	-	-	-	-	-	-	-	NP	24.35	0.00	86.92	62.57
04/29/99	-	-	-	-	-	-	-	-	NP	24.47	0.00	86.92	62.45
04/12/00	-	-	-	-	-	-	-	-	NP	24.70	0.00	86.92	62.22
04/02/01	-	-	-	-	-	-	-	-	NP	25.13	0.00	86.92	61.79
04/01/02	-	-	-	-	-	-	-	-	NP	24.74	0.00	86.92	62.18
08/07/02	0.2	-	3.1	1.7	3.7	4.3	-	-	-	-	-	-	-
11/01/02	-	-	-	-	-	-	-	-	NP	26.55	0.00	86.92	60.37
04/01/03	-	-	-	-	-	-	-	-	NP	24.74	0.00	86.92	62.18
11/01/03	-	-	-	-	-	-	-	-	NP	24.78	0.00	86.92	62.14
03/30/04	-	-	-	-	-	-	-	-	NP	24.55	0.00	86.92	62.37
11/22/04	-	-	-	-	-	-	-	-	NP	28.49	0.00	86.92	58.43
03/29/05	-	-	-	-	-	-	-	-	NP	22.80	0.00	86.92	64.12
12/07/05	-	-	-	-	-	-	-	-	NP	23.68	0.00	86.92	63.24
04/11/06	-	-	-	-	-	-	-	-	NP	24.09	0.00	86.92	62.83
12/04/06	-	-	-	-	-	-	-	-	NP	24.68	0.00	86.92	62.24
05/01/07	-	-	-	-	-	-	-	-	NP	51.98	0.00	86.92	34.94
09/25/07	-	-	-	-	-	-	-	-	NP	25.31	0.00	86.92	61.61
03/27/08	-	-	-	-	-	-	-	-	NP	24.75	0.00	86.92	62.17
09/22/08	-	-	-	-	-	-	-	-	NP	25.32	0.00	86.92	61.60
03/26/09	-	-	-	-	-	-	-	-	NP	25.18	0.00	86.92	61.78
10/12/09	-	-	-	-	-	-	-	-	NP	25.49	0.00	86.92	61.43
05/04/10	-	-	-	-	-	-	-	-	NP	25.83	0.00	86.92	61.09
10/06/10	-	-	-	-	-	-	-	-	NP	25.98	0.00	86.92	60.94
WELL # PO-18													
05/28/92	-	-	-	-	-	-	-	-	DRY	-	-	86.61	-
02/27/93	-	-	-	-	-	-	-	-	DRY	-	-	86.61	-
04/18/94	-	-	-	-	-	-	-	-	DRY	-	-	86.61	-
04/22/95	-	-	-	-	-	-	-	-	DRY	-	-	86.61	-
11/07/96	-	-	-	-	-	-	-	-	DRY	-	-	86.61	-
04/29/97	-	-	-	-	-	-	-	-	NP	30.06	0.00	86.61	56.55
04/23/98	-	-	-	-	-	-	-	-	DRY	-	-	86.61	-
04/28/99	-	-	-	-	-	-	-	-	DRY	-	-	86.61	-
04/10/00	-	-	-	-	-	-	-	-	DRY	-	-	86.61	-
04/05/01	-	-	-	-	-	-	-	-	DRY	-	-	86.61	-
04/01/02	-	-	-	-	-	-	-	-	NP	29.53	0.00	86.61	57.08
08/07/02	dry	-	dry	dry	dry	dry	-	-	-	-	-	-	-
11/01/02	-	-	-	-	-	-	-	-	NP	29.85	0.00	86.61	56.76
04/01/03	-	-	-	-	-	-	-	-	DRY	-	-	86.61	-
11/01/03	-	-	-	-	-	-	-	-	NP	29.77	0.00	86.61	56.84
03/30/04	-	-	-	-	-	-	-	-	NP	29.72	0.00	86.61	56.89
11/22/04	-	-	-	-	-	-	-	-	NP	29.81	0.00	86.61	56.80
03/29/05	-	-	-	-	-	-	-	-	NP	29.50	0.00	86.61	57.11
12/07/05	-	-	-	-	-	-	-	-	NP	23.33	0.00	86.61	63.28
04/11/06	-	-	-	-	-	-	-	-	NP	29.50	0.00	86.61	57.11
12/04/06	-	-	-	-	-	-	-	-	NP	29.60	0.00	86.61	57.01
05/01/07	-	-	-	-	-	-	-	-	NP	29.63	0.00	86.61	56.98
09/25/07	-	-	-	-	-	-	-	-	NP	29.68	0.00	86.61	56.93

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
03/27/08	-	-	-	-	-	-	-	-	NP	29.67	0.00	86.61	56.94
09/22/08	-	-	-	-	-	-	-	-	NP	29.72	0.00	86.61	56.89
03/26/09	-	-	-	-	-	-	-	-	NP	29.62	0.00	86.61	56.99
06/26/09	WELL DESTROYED												
WELL # PO-19 Area = OFF-SITE S													
05/28/92	-	-	<1.0	<1.0	<1.0	<1.0	-	-	NP	24.06	0.00	85.29	61.23
08/22/92	-	-	-	-	-	-	-	-	NP	24.33	0.00	85.29	60.96
02/27/93	-	-	-	-	-	-	-	-	NP	23.81	0.00	85.29	61.48
04/16/94	-	-	-	-	-	-	-	-	NP	23.83	0.00	85.29	61.46
04/24/95	-	-	-	-	-	-	-	-	NP	22.16	0.00	85.29	63.13
04/15/96	-	-	-	-	-	-	-	-	NP	22.85	0.00	85.29	62.44
04/29/97	-	-	-	-	-	-	-	-	NP	23.13	0.00	85.29	62.16
04/22/98	-	-	-	-	-	-	-	-	NP	22.38	0.00	85.29	62.91
11/02/98	-	-	-	-	-	-	-	-	NP	21.65	0.00	85.29	63.64
04/26/99	-	-	-	-	-	-	-	-	NP	22.22	0.00	85.29	63.07
04/11/00	-	-	-	-	-	-	-	-	NP	23.15	0.00	85.29	62.14
04/05/01	-	-	-	-	-	-	-	-	NP	23.25	0.00	85.29	62.04
04/01/02	-	-	-	-	-	-	-	-	NP	23.09	0.00	85.29	62.20
11/01/02	-	-	-	-	-	-	-	-	NP	20.75	0.00	85.29	64.54
04/01/03	-	-	-	-	-	-	-	-	NP	22.95	0.00	85.29	62.34
11/01/03	-	-	-	-	-	-	-	-	NP	23.19	0.00	85.29	62.10
03/30/04	-	-	-	-	-	-	-	-	NP	23.20	0.00	85.29	62.09
11/22/04	-	-	-	-	-	-	-	-	NP	23.20	0.00	85.29	62.09
03/29/05	-	-	-	-	-	-	-	-	NP	21.40	0.00	85.29	63.89
12/07/05	-	-	-	-	-	-	-	-	NP	21.70	0.00	85.29	63.59
04/11/06	-	-	-	-	-	-	-	-	-	-	-	-	-
12/04/06	-	-	-	-	-	-	-	-	NP	22.54	-	85.29	-
05/01/07	-	-	-	-	-	-	-	-	NP	23.10	0.00	85.29	62.19
09/27/07	-	-	-	-	-	-	-	-	NO ACCESS	-	-	85.29	-
03/27/08	-	-	-	-	-	-	-	-	NO ACCESS	-	-	85.29	-
09/22/08	-	-	-	-	-	-	-	-	NO ACCESS	-	-	85.29	-
03/26/09	-	-	-	-	-	-	-	-	NP	23.56	0.00	85.29	61.73
10/12/09	-	-	-	-	-	-	-	-	NP	23.50	0.00	85.29	61.79
05/04/10	-	-	-	-	-	-	-	-	NP	23.12	0.00	85.29	62.17
10/06/10	-	-	-	-	-	-	-	-	NP	23.53	0.00	85.29	61.76
03/30/11	-	-	-	-	-	-	-	-	NP	22.65	0.00	85.29	62.64
09/28/11	-	-	-	-	-	-	-	-	NP	22.70	0.00	85.29	62.59
04/03/12	-	-	-	-	-	-	-	-	NP	23.10	0.00	85.29	62.19
09/26/12	-	-	-	-	-	-	-	-	NP	23.55	0.00	85.29	61.74
03/20/13	-	-	-	-	-	-	-	-	NP	23.98	0.00	85.29	61.31
09/23/13	-	-	-	-	-	-	-	-	NP	24.64	0.00	85.29	60.65
04/01/14	-	-	-	-	-	-	-	-	NO ACCESS	-	-	85.29	-
WELL # SFS-2 Area = OFF-SITE S													
09/20/85	-	-	-	-	-	-	-	-	20.30	21.60	1.30	85.50	64.86
08/28/86	-	-	-	-	-	-	-	-	19.03	20.95	1.92	85.50	66.00
02/26/87	-	-	-	-	-	-	-	-	19.93	21.40	1.47	85.50	65.21
02/08/88	-	-	-	-	-	-	-	-	20.64	22.02	1.38	85.50	64.52
03/29/89	-	-	-	-	-	-	-	-	21.13	22.59	1.46	85.50	64.01
04/11/90	-	-	-	-	-	-	-	-	21.41	22.86	1.45	85.70	63.93
12/20/90	-	-	-	-	-	-	-	-	NP	25.07	0.00	85.70	60.63
01/07/91	-	-	-	-	-	-	-	-	21.77	22.38	0.61	85.70	63.78
03/02/92	-	-	-	-	-	-	-	-	21.25	21.75	0.50	85.65	64.28
02/27/93	-	-	-	-	-	-	-	-	19.75	20.19	0.44	85.65	65.79
04/16/94	-	-	-	-	-	-	-	-	DRY	-	-	85.65	-
04/22/95	-	-	-	-	-	-	-	-	DRY	-	-	85.65	-
04/09/96	-	-	-	-	-	-	-	-	20.33	20.88	0.55	85.65	65.19
04/29/97	-	-	-	-	-	-	-	-	20.19	20.71	0.52	85.65	65.33
04/23/98	-	-	-	-	-	-	-	-	18.28	18.74	0.46	85.65	67.26
04/27/99	-	-	-	-	-	-	-	-	19.71	20.09	0.38	85.65	65.85
04/12/00	-	-	-	-	-	-	-	-	20.60	20.99	0.39	85.65	64.95
04/04/01	-	-	-	-	-	-	-	-	NP	19.58	0.00	86.65	67.07
04/01/02	-	-	-	-	-	-	-	-	-	20.93	0.00	86.65	65.72
11/01/02	-	-	-	-	-	-	-	-	21.42	21.50	0.08	86.65	65.21
04/01/03	-	-	-	-	-	-	-	-	-	20.50	0.00	86.65	66.15
04/01/03	-	-	-	-	-	-	-	-	-	20.50	0.00	86.65	66.15
11/01/03	-	-	-	-	-	-	-	-	-	20.23	0.00	86.65	66.42
03/30/04	-	-	-	-	-	-	-	-	-	20.40	0.00	86.65	66.25
11/22/04	-	-	-	-	-	-	-	-	-	20.80	0.00	86.65	65.85
03/29/05	-	-	-	-	-	-	-	-	-	18.40	0.00	86.65	68.25
12/07/05	-	-	-	-	-	-	-	-	-	19.24	0.00	86.65	67.41
04/11/06	-	-	-	-	-	-	-	-	NP	19.64	0.00	86.65	66.91
12/04/06	-	-	-	-	-	-	-	-	NP	20.42	0.00	86.65	66.23
05/01/07	-	-	-	-	-	-	-	-	NP	20.90	0.00	86.65	65.75
09/27/07	-	-	-	-	-	-	-	-	FILM	21.20	0.00	86.65	65.45
03/27/08	-	-	-	-	-	-	-	-	FILM	21.00	0.00	86.65	65.65
09/22/08	-	-	-	-	-	-	-	-	NP	21.32	0.00	86.65	65.33
03/26/09	-	-	-	-	-	-	-	-	NP	21.10	0.00	86.65	65.55
10/12/09	-	-	-	-	-	-	-	-	21.58	21.60	0.02	86.65	65.07
05/04/10	-	-	-	-	-	-	-	-	NP	20.80	0.00	86.65	65.85
10/06/10	-	-	-	-	-	-	-	-	NP	21.30	0.00	86.65	65.35
03/30/11	-	-	-	-	-	-	-	-	NP	20.05	0.00	86.65	66.60
09/28/11	-	-	-	-	-	-	-	-	NP	20.60	0.00	86.65	66.05
04/03/12	-	-	-	-	-	-	-	-	NP	21.15	0.00	86.65	65.50
09/26/12	-	-	-	-	-	-	-	-	NP	21.50	0.00	86.65	65.15

Table 2 - Summary of Historical Gauging and Chemical Data

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	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
03/20/13	-	-	-	-	-	-	-	-	NP	21.82	0.00	86.65	64.83
09/25/13	-	-	-	-	-	-	-	-	NP	22.24	0.00	86.65	64.41
04/01/14	-	-	-	-	-	-	-	-	NP	22.34	0.00	86.65	64.31
WELL # STF-1													
09/20/85	-	-	-	-	-	-	-	-	22.49	22.59	0.10	86.56	64.05
09/20/86	-	-	-	-	-	-	-	-	21.92	22.38	0.46	86.56	64.63
02/26/87	-	-	-	-	-	-	-	-	22.32	22.58	0.26	86.56	64.18
02/08/88	-	-	-	-	-	-	-	-	22.59	22.68	0.09	86.56	63.95
03/29/89	-	-	-	-	-	-	-	-	22.88	22.98	0.10	86.56	63.66
01/10/90	-	-	-	-	-	-	-	-	23.11	23.23	0.12	86.57	63.43
02/19/91	-	-	-	-	-	-	-	-	23.33	23.42	0.09	86.57	63.22
11/20/91	-	-	-	-	-	-	-	-	23.33	23.39	0.06	86.50	63.16
03/02/92	-	-	-	-	-	-	-	-	23.29	23.38	0.09	86.50	63.19
02/27/93	-	-	-	-	-	-	-	-	22.45	22.57	0.12	86.50	64.02
04/18/94	-	-	-	-	-	-	-	-	20.95	ND	>20.95	86.50	70.68
04/24/95	-	-	-	-	-	-	-	-	22.17	22.35	0.18	86.50	64.29
04/10/96	-	-	-	-	-	-	-	-	22.32	22.43	0.11	86.50	64.15
05/01/97	-	-	-	-	-	-	-	-	21.90	22.08	0.18	86.50	64.56
04/21/98	-	-	-	-	-	-	-	-	20.15	21.35	1.20	86.50	66.06
04/26/99	-	-	-	-	-	-	-	-	20.54	27.90	7.36	86.50	64.16
04/10/00	-	-	-	-	-	-	-	-	21.97	22.21	0.24	86.50	64.47
04/03/01	-	-	-	-	-	-	-	-	21.49	21.60	0.11	86.50	64.96
04/01/02	-	-	-	-	-	-	-	-	22.24	22.35	0.11	86.60	64.23
11/01/02	-	-	-	-	-	-	-	-	21.73	22.87	1.14	86.50	64.49
04/01/03	-	-	-	-	-	-	-	-	21.42	22.18	0.76	86.50	64.89
11/01/03	-	-	-	-	-	-	-	-	21.03	23.45	2.42	86.50	64.88
03/30/04	-	-	-	-	-	-	-	-	21.76	22.56	0.80	86.50	64.54
				WELL DESTROYED									
WELL # STF-1A Area = STF S of Foster													
04/11/06	-	-	-	-	-	-	-	-	20.67	20.90	0.33	88.12	67.47
12/04/06	-	-	-	-	-	-	-	-	20.80	21.14	0.34	88.12	67.24
06/01/07	-	-	-	-	-	-	-	-	21.15	21.28	0.13	88.12	66.94
09/25/07	-	-	-	-	-	-	-	-	21.26	21.54	0.28	88.12	66.79
03/27/08	-	-	-	-	-	-	-	-	21.69	21.74	0.05	88.12	66.42
09/22/08	-	-	-	-	-	-	-	-	NO ACCESS	-	-	88.12	-
03/26/09	-	-	-	-	-	-	-	-	21.96	22.05	0.09	88.12	66.14
10/12/09	-	-	-	-	-	-	-	-	22.08	22.26	0.18	88.12	66.00
05/04/10	-	-	-	-	-	-	-	-	21.98	22.82	0.84	88.12	65.93
10/06/10	-	-	-	-	-	-	-	-	22.22	22.75	0.53	88.12	65.77
03/30/11	-	-	-	-	-	-	-	-	NP	21.79	0.00	88.12	66.33
09/28/11	-	-	-	-	-	-	-	-	NO ACCESS	-	-	88.12	-
04/03/12	-	-	-	-	-	-	-	-	NO ACCESS	-	-	88.12	-
09/26/12	-	-	-	-	-	-	-	-	NO ACCESS	-	-	88.12	-
03/20/13	-	-	-	-	-	-	-	-	22.04	24.25	2.21	88.12	66.54
09/25/13	-	-	-	-	-	-	-	-	NO ACCESS	-	-	88.12	-
04/02/14	-	-	-	-	-	-	-	-	NO ACCESS	-	-	88.12	-
WELL # STF-2													
09/20/85	-	-	-	-	-	-	-	-	21.60	26.37	4.77	87.03	64.26
09/20/86	-	-	-	-	-	-	-	-	21.19	30.22	9.03	87.03	63.63
02/26/87	-	-	-	-	-	-	-	-	22.21	22.25	0.04	87.03	64.81
02/08/88	-	-	-	-	-	-	-	-	22.37	24.32	1.95	87.03	64.18
03/29/89	-	-	-	-	-	-	-	-	22.83	23.90	1.07	87.03	63.94
01/10/90	-	-	-	-	-	-	-	-	23.20	23.63	0.43	87.07	63.76
01/07/91	-	-	-	-	-	-	-	-	23.17	24.63	1.46	87.07	63.54
03/02/92	-	-	-	-	-	-	-	-	NP	25.00	0.00	87.00	62.00
02/27/93	-	-	-	-	-	-	-	-	21.91	23.44	1.53	87.00	64.72
04/18/94	-	-	-	-	-	-	-	-	22.42	22.83	0.41	87.00	64.48
04/24/95	-	-	-	-	-	-	-	-	21.04	23.15	2.11	87.00	65.44
04/10/96	-	-	-	-	-	-	-	-	21.89	22.09	0.20	87.00	65.08
05/01/97	-	-	-	-	-	-	-	-	21.70	21.95	0.25	87.00	65.24
04/22/98	-	-	-	-	-	-	-	-	19.31	20.29	0.98	87.00	67.45
04/26/99	-	-	-	-	-	-	-	-	20.62	22.09	1.47	87.00	66.02
04/10/00	-	-	-	-	-	-	-	-	21.79	23.22	1.43	87.00	64.66
04/03/01	-	-	-	-	-	-	-	-	NP	21.12	0.00	87.00	65.86
11/01/02	-	-	-	-	-	-	-	-	-	-	-	87.00	-
04/01/03	-	-	-	-	-	-	-	-	-	-	-	87.00	-
				WELL DESTROYED									
WELL # STF-2A Area = STF S of Foster													
04/13/06	-	-	-	-	-	-	-	-	24.50	28.32	3.82	92.98	67.54
12/04/06	-	-	-	-	-	-	-	-	24.94	28.11	3.17	92.98	67.26
06/01/07	-	-	-	-	-	-	-	-	25.37	27.07	1.70	92.98	67.19
09/25/07	-	-	-	-	-	-	-	-	25.35	27.14	1.79	92.98	67.19
03/27/08	-	-	-	-	-	-	-	-	26.10	26.92	0.82	92.98	66.68
09/22/08	-	-	-	-	-	-	-	-	26.40	26.94	0.54	92.98	66.45
03/26/09	-	-	-	-	-	-	-	-	28.15	28.59	0.44	92.98	64.72
10/12/09	-	-	-	-	-	-	-	-	25.99	28.67	2.68	92.98	66.33
05/04/10	-	-	-	-	-	-	-	-	26.40	28.27	1.87	92.98	66.12
10/06/10	-	-	-	-	-	-	-	-	27.72	28.46	0.74	92.98	65.06
03/30/11	-	-	-	-	-	-	-	-	27.19	28.11	0.92	92.98	65.56
09/28/11	-	-	-	-	-	-	-	-	26.83	27.51	0.68	92.98	65.98
04/03/12	-	-	-	-	-	-	-	-	27.01	27.94	0.93	92.98	65.74

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
09/26/12	-	-	-	-	-	-	-	-	28.98	29.15	0.17	92.98	63.96
03/20/13	-	-	-	-	-	-	-	-	27.35	28.13	0.78	92.98	65.44
09/25/13	-	-	-	-	-	-	-	-	28.17	28.40	0.23	92.98	64.75
04/02/14	-	-	-	-	-	-	-	-	28.95	29.25	0.30	92.98	63.98
WELL # STF-3													
09/20/85	-	-	-	-	-	-	-	-	20.35	22.56	2.21	86.17	66.28
06/20/86	-	-	-	-	-	-	-	-	20.18	21.70	1.54	86.17	65.63
04/29/87	-	-	-	-	-	-	-	-	20.69	22.25	1.56	86.17	65.10
02/08/88	-	-	-	-	-	-	-	-	20.96	22.61	1.65	86.17	64.83
03/29/89	-	-	-	-	-	-	-	-	21.25	22.75	1.50	86.17	64.55
01/10/90	-	-	-	-	-	-	-	-	21.57	23.22	1.65	86.24	64.27
02/19/91	-	-	-	-	-	-	-	-	21.77	23.58	1.81	86.24	64.03
03/02/92	-	-	-	-	-	-	-	-	21.75	23.41	1.66	86.20	64.04
02/27/93	-	-	-	-	-	-	-	-	21.20	21.49	0.29	86.20	64.93
04/18/94	-	-	-	-	-	-	-	-	DRY	-	-	86.20	-
04/24/95	-	-	-	-	-	-	-	-	20.77	20.90	0.13	86.20	65.40
04/10/96	-	-	-	-	-	-	-	-	20.70	21.20	0.50	86.20	65.35
05/01/97	-	-	-	-	-	-	-	-	NP	20.25	0.00	86.20	66.95
04/21/98	-	-	-	-	-	-	-	-	17.55	17.55	0.00	86.20	68.65
04/26/99	-	-	-	-	-	-	-	-	NP	19.95	0.00	86.20	66.25
04/10/00	-	-	-	-	-	-	-	-	NP	19.32	0.00	86.20	66.88
04/04/01	-	-	-	-	-	-	-	-	NP	18.49	0.00	86.20	67.71
04/01/02	-	-	-	-	-	-	-	-	NP	20.28	0.00	86.20	65.92
11/01/02	-	-	-	-	-	-	-	-	NP	20.32	0.00	86.20	65.88
04/01/03	-	-	-	-	-	-	-	-	NP	17.80	0.00	86.20	68.40
11/01/03	-	-	-	-	-	-	-	-	NP	19.61	0.00	86.20	66.59
03/30/04	-	-	-	-	-	-	-	-	NP	18.07	0.00	86.20	68.13
05/04/10	-	-	-	-	-	-	-	-	21.24	22.77	1.53	86.20	64.59
	WELL DESTROYED												
WELL # STF-3A Area = STF S of Foster													
06/14/06	-	-	-	-	-	-	-	-	20.08	20.23	0.15	87.62	67.50
12/04/06	-	-	-	-	-	-	-	-	20.28	20.57	0.29	87.62	67.27
05/01/07	-	-	-	-	-	-	-	-	20.63	20.65	0.02	87.62	66.99
03/27/08	-	-	-	-	-	-	-	-	20.87	22.70	1.83	87.62	66.30
09/22/08	-	-	-	-	-	-	-	-	21.00	22.89	1.89	87.62	66.16
03/26/09	-	-	-	-	-	-	-	-	21.04	23.01	1.97	87.62	66.10
10/12/09	-	-	-	-	-	-	-	-	21.19	23.42	2.23	87.62	65.88
05/04/10	-	-	-	-	-	-	-	-	21.24	22.77	1.53	87.62	66.01
10/06/10	-	-	-	-	-	-	-	-	21.33	22.84	1.51	87.62	65.92
03/30/11	-	-	-	-	-	-	-	-	21.04	21.57	0.53	87.62	66.45
09/28/11	-	-	-	-	-	-	-	-	21.16	21.65	0.49	87.62	66.34
04/03/12	-	-	-	-	-	-	-	-	21.31	22.90	1.59	87.62	65.92
09/26/12	-	-	-	-	-	-	-	-	21.63	23.10	1.47	87.62	65.63
03/20/13	-	-	-	-	-	-	-	-	21.66	23.20	1.62	87.62	65.64
09/25/13	-	-	-	-	-	-	-	-	21.69	23.43	1.74	87.62	65.50
04/02/14	-	-	-	-	-	-	-	-	21.66	23.53	1.87	87.62	65.35
WELL # STF-5A													
09/20/85	-	-	-	-	-	-	-	-	NP	19.76	0.00	88.55	68.79
06/20/86	-	-	-	-	-	-	-	-	NP	19.61	0.00	88.55	68.94
02/26/87	-	-	-	-	-	-	-	-	NP	21.90	0.00	88.55	66.65
02/08/88	-	-	-	-	-	-	-	-	NP	19.97	0.00	88.55	68.58
03/29/89	-	-	-	-	-	-	-	-	NP	19.96	0.00	88.55	68.59
03/26/90	-	-	-	-	-	-	-	-	NP	19.94	0.00	88.56	68.62
02/19/91	-	-	-	-	-	-	-	-	NP	20.09	0.00	88.56	68.47
03/02/92	-	-	-	-	-	-	-	-	DRY	-	-	88.50	-
02/27/93	-	-	-	-	-	-	-	-	DRY	-	-	88.50	-
04/18/94	-	-	-	-	-	-	-	-	NP	2.08	0.00	88.50	86.42
11/05/94	-	-	-	-	-	-	-	-	0.25	0.67	0.42	88.50	88.15
04/22/95	-	-	-	-	-	-	-	-	NP	7.35	0.00	88.50	81.15
04/10/96	-	-	-	-	-	-	-	-	DRY	-	-	88.50	-
05/01/97	-	-	-	-	-	-	-	-	DRY	-	-	88.50	-
04/21/98	-	-	-	-	-	-	-	-	DRY	-	-	88.50	-
04/26/99	-	-	-	-	-	-	-	-	DRY	-	-	88.50	-
11/12/01	-	-	-	-	-	-	-	-	DRY	-	-	88.50	-
11/01/02	-	-	-	-	-	-	-	-	-	-	-	-	-
04/01/03	-	-	-	-	-	-	-	-	-	-	-	-	-
11/01/03	-	-	-	-	-	-	-	-	-	-	-	Inaccessible	-
03/30/04	-	-	-	-	-	-	-	-	-	-	-	Inaccessible	-
	WELL DESTROYED												
WELL # STF-6A													
06/20/86	-	-	-	-	-	-	-	-	NP	20.79	0.00	87.48	66.69
02/26/87	-	-	-	-	-	-	-	-	NP	20.00	0.00	87.48	67.48
02/08/88	-	-	-	-	-	-	-	-	NP	21.78	0.00	87.48	65.70
03/29/89	-	-	-	-	-	-	-	-	NP	21.29	0.00	87.48	66.19
03/26/90	-	-	-	-	-	-	-	-	NP	20.83	0.00	87.55	66.72
02/19/91	-	-	-	-	-	-	-	-	NP	21.69	0.00	87.55	65.86
03/02/92	-	-	-	-	-	-	-	-	DRY	-	-	87.50	-
02/27/93	-	-	-	-	-	-	-	-	DRY	-	-	87.50	-
04/18/94	-	-	-	-	-	-	-	-	NP	20.08	0.00	87.50	67.42
04/20/95	-	-	-	-	-	-	-	-	NP	21.57	0.00	87.50	65.93
11/09/95	-	-	-	-	-	-	-	-	NP	21.63	0.00	87.50	65.87

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
04/10/96	-	-	-	-	-	-	-	-	NP	21.29	0.00	87.50	66.21
05/01/97	-	-	-	-	-	-	-	-	NP	21.39	0.00	87.50	66.11
04/21/98	-	-	-	-	-	-	-	-	19.74	19.74	0.00	87.50	67.76
04/26/99	-	-	-	-	-	-	-	-	20.50	20.70	0.20	87.50	66.95
04/10/00	-	-	-	-	-	-	-	-	NP	19.18	0.00	87.50	68.32
04/03/01	-	-	-	-	-	-	-	-	NP	19.14	0.00	87.50	68.36
04/01/02	-	-	-	-	-	-	-	-	NP	19.14	0.00	87.50	68.36
11/01/02	-	-	-	-	-	-	-	-	NP	19.00	0.00	87.50	68.50
04/01/03	-	-	-	-	-	-	-	-	NP	16.62	0.00	87.50	70.88
11/01/02	-	-	-	-	-	-	-	-	NP	19.00	0.00	87.50	68.50
11/01/03	-	-	-	-	-	-	-	-	NP	19.12	0.00	87.50	68.38
03/30/04	-	-	-	-	-	-	-	-	NP	18.54	0.00	87.50	68.96
	WELL DESTROYED												
WELL # STF-7D													
06/20/86	-	-	-	-	-	-	-	-	NP	19.17	0.00	86.68	67.51
02/26/87	-	-	-	-	-	-	-	-	20.11	21.45	1.34	86.68	66.24
02/08/88	-	-	-	-	-	-	-	-	NP	19.15	0.00	86.68	67.53
03/29/89	-	-	-	-	-	-	-	-	NP	19.13	0.00	86.68	67.55
03/26/90	-	-	-	-	-	-	-	-	NP	19.21	0.00	85.26	66.05
02/19/91	-	-	-	-	-	-	-	-	NP	19.92	0.00	85.26	65.34
03/02/92	-	-	-	-	-	-	-	-	NP	16.50	0.00	85.24	68.74
02/27/93	-	-	-	-	-	-	-	-	NP	16.54	0.00	85.24	68.70
05/20/93	-	-	-	-	-	-	-	-	NP	20.08	0.00	85.24	65.16
04/18/94	-	-	-	-	-	-	-	-	DRY	-	-	85.24	-
04/20/95	-	-	-	-	-	-	-	-	NP	16.91	0.00	85.24	68.33
04/10/96	-	-	-	-	-	-	-	-	16.54	16.56	0.02	85.24	68.70
05/01/97	-	-	-	-	-	-	-	-	NP	18.74	0.00	85.24	66.50
04/21/98	-	-	-	-	-	-	-	-	NP	15.05	0.00	85.24	70.19
04/26/99	-	-	-	-	-	-	-	-	NP	18.23	0.00	85.24	67.01
04/10/00	-	-	-	-	-	-	-	-	NP	17.12	0.00	85.24	68.12
04/03/01	-	-	-	-	-	-	-	-	NP	15.99	0.00	85.24	69.25
04/01/02	-	-	-	-	-	-	-	-	NP	16.60	0.00	85.24	68.64
11/01/02	-	-	-	-	-	-	-	-	NP	18.77	0.00	85.24	66.47
04/01/03	-	-	-	-	-	-	-	-	NP	13.62	0.00	85.24	71.62
11/01/03	-	-	-	-	-	-	-	-	NP	18.23	0.00	85.24	67.01
03/30/04	-	-	-	-	-	-	-	-	NP	14.33	0.00	85.24	70.91
	WELL DESTROYED												
WELL # STF-8B													
09/20/85	-	-	-	-	-	-	-	-	18.68	20.20	1.52	87.30	68.25
06/20/86	-	-	-	-	-	-	-	-	19.83	20.87	1.04	87.30	67.42
02/26/87	-	-	-	-	-	-	-	-	NP	20.05	0.00	87.30	67.25
02/08/88	-	-	-	-	-	-	-	-	NP	19.09	0.00	87.30	68.21
03/29/89	-	-	-	-	-	-	-	-	NP	21.60	0.00	87.30	65.70
01/10/90	-	-	-	-	-	-	-	-	DRY	-	-	85.41	-
06/28/90	-	-	-	-	-	-	-	-	NP	21.50	0.00	85.41	63.91
02/19/91	-	-	-	-	-	-	-	-	DRY	-	-	85.41	-
03/02/92	-	-	-	-	-	-	-	-	18.69	18.75	0.06	85.39	66.69
02/27/93	-	-	-	-	-	-	-	-	NP	18.99	0.00	85.39	66.40
04/18/94	-	-	-	-	-	-	-	-	20.17	20.75	0.58	85.39	65.08
04/20/95	-	-	-	-	-	-	-	-	18.49	18.67	0.18	85.39	66.56
04/10/96	-	-	-	-	-	-	-	-	18.67	18.70	0.03	85.39	66.71
05/01/97	-	-	-	-	-	-	-	-	NP	18.11	0.00	85.39	67.28
04/21/98	-	-	-	-	-	-	-	-	13.68	13.73	0.05	85.39	71.70
04/26/99	-	-	-	-	-	-	-	-	17.54	18.00	0.46	85.39	67.74
04/10/00	-	-	-	-	-	-	-	-	18.10	18.41	0.31	85.39	67.21
04/03/01	-	-	-	-	-	-	-	-	16.75	17.10	0.35	85.39	68.55
04/01/02	-	-	-	-	-	-	-	-	18.87	18.48	-	85.39	-
11/01/02	-	-	-	-	-	-	-	-		19.93	0.00	85.39	65.46
04/01/03	-	-	-	-	-	-	-	-	16.62	16.84	0.22	85.39	68.72
11/01/03	-	-	-	-	-	-	-	-	NO ACCESS	-		85.39	-
	WELL DESTROYED												
WELL # STF-9B													
06/20/86	-	-	-	-	-	-	-	-	NP	19.19	0.00	86.18	66.99
02/26/87	-	-	-	-	-	-	-	-	20.00	21.68	1.68	86.18	65.77
02/08/88	-	-	-	-	-	-	-	-	NP	19.79	0.00	86.18	66.39
03/29/89	-	-	-	-	-	-	-	-	NP	20.04	0.00	86.18	66.14
03/26/90	-	-	-	-	-	-	-	-	NP	19.50	0.00	86.20	66.70
02/19/91	-	-	-	-	-	-	-	-	DRY	-	-	86.20	-
03/02/92	-	-	-	-	-	-	-	-	NP	20.00	0.00	86.13	66.13
02/27/93	-	-	-	-	-	-	-	-	NP	19.74	0.00	86.13	66.39
04/18/94	-	-	-	-	-	-	-	-	DRY	-	-	86.13	-
04/20/95	-	-	-	-	-	-	-	-	NP	20.04	0.00	86.13	66.09
04/10/96	-	-	-	-	-	-	-	-	NP	20.05	0.00	86.13	66.08
05/01/97	-	-	-	-	-	-	-	-	NP	20.03	0.00	86.13	66.10
04/21/98	-	-	-	-	-	-	-	-	16.42	16.65	0.23	86.13	69.85
04/26/99	-	-	-	-	-	-	-	-	18.90	19.05	0.15	86.13	67.19
04/10/00	-	-	-	-	-	-	-	-	NP	19.11	0.00	86.13	67.02
04/03/01	-	-	-	-	-	-	-	-	18.91	19.10	0.19	86.13	67.17
11/01/02	-	-	-	-	-	-	-	-	NP	19.54	0.00	86.13	66.59
04/01/03	-	-	-	-	-	-	-	-	NP	16.78	0.00	86.13	69.35
11/01/03	-	-	-	-	-	-	-	-	18.80	18.83	0.03	86.13	67.32
03/30/04	-	-	-	-	-	-	-	-	NP	18.61	0.00	86.13	67.52
	WELL DESTROYED												

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT (feet)	DEPTH TO GROUNDWATER (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)					
WELL # STF-10													
06/20/86	-	-	-	-	-	-	-	-	19.45	21.94	2.49	86.60	66.54
02/26/87	-	-	-	-	-	-	-	-	17.92	19.20	1.28	86.60	68.37
02/08/88	-	-	-	-	-	-	-	-	20.38	21.68	1.30	86.60	65.90
03/29/89	-	-	-	-	-	-	-	-	20.69	21.54	0.85	86.60	65.70
01/10/90	-	-	-	-	-	-	-	-	DRY	-	-	86.60	-
06/06/90	-	-	-	-	-	-	-	-	NP	21.59	0.00	86.60	65.01
02/19/91	-	-	-	-	-	-	-	-	DRY	-	-	86.60	-
03/02/92	-	-	-	-	-	-	-	-	DRY	-	-	86.55	-
02/27/93	-	-	-	-	-	-	-	-	DRY	-	-	86.55	-
04/18/94	-	-	-	-	-	-	-	-	DRY	-	-	86.55	-
04/24/95	-	-	-	-	-	-	-	-	20.37	21.42	1.05	86.55	65.92
04/10/96	-	-	-	-	-	-	-	-	20.14	20.30	0.16	86.55	66.37
05/01/97	-	-	-	-	-	-	-	-	NP	19.72	0.00	86.55	66.83
04/21/98	-	-	-	-	-	-	-	-	NP	15.93	0.00	86.55	70.62
04/26/99	-	-	-	-	-	-	-	-	19.20	19.28	0.08	86.55	67.33
04/10/00	-	-	-	-	-	-	-	-	19.83	19.87	0.04	86.55	66.71
04/03/01	-	-	-	-	-	-	-	-	NP	18.42	0.00	86.55	68.13
04/01/02	-	-	-	-	-	-	-	-	-	20.35	0.00	86.55	66.20
11/01/02	-	-	-	-	-	-	-	-	-	20.75	0.00	86.55	65.80
04/01/03	-	-	-	-	-	-	-	-	-	16.78	0.00	86.13	69.35
11/01/03	-	-	-	-	-	-	-	-	19.22	19.25	0.03	86.55	67.32
03/30/04	-	-	-	-	-	-	-	-				86.55	
	WELL DESTROYED												
WELL # STF-11A													
06/28/86	-	-	-	-	-	-	-	-	17.62	19.15	1.53	86.60	68.61
02/26/87	-	-	-	-	-	-	-	-	NP	19.62	0.00	86.60	66.98
02/08/88	-	-	-	-	-	-	-	-	18.25	19.24	0.99	86.60	68.11
03/29/89	-	-	-	-	-	-	-	-	NP	20.00	0.00	86.60	66.60
01/10/90	-	-	-	-	-	-	-	-	18.78	19.22	0.46	85.08	66.21
01/07/91	-	-	-	-	-	-	-	-	DRY	-	-	85.08	-
03/02/92	-	-	-	-	-	-	-	-	DRY	-	-	85.77	-
02/27/93	-	-	-	-	-	-	-	-	20.68	21.72	1.04	85.77	64.84
04/18/94	-	-	-	-	-	-	-	-	NP	19.08	0.00	85.77	66.69
04/20/95	-	-	-	-	-	-	-	-	NP	18.11	0.00	85.77	67.66
04/10/96	-	-	-	-	-	-	-	-	17.93	18.50	0.57	85.77	67.70
05/01/97	-	-	-	-	-	-	-	-	17.33	17.51	0.18	85.77	68.40
04/21/98	-	-	-	-	-	-	-	-	14.66	14.88	0.28	85.77	71.02
04/26/99	-	-	-	-	-	-	-	-	16.37	17.39	1.02	85.77	69.15
04/10/00	-	-	-	-	-	-	-	-	17.43	18.14	0.71	85.77	68.17
04/03/01	-	-	-	-	-	-	-	-	16.96	17.17	0.21	85.77	68.76
04/01/02	-	-	-	-	-	-	-	-	17.77	18.31	0.54	85.77	67.87
11/01/02	-	-	-	-	-	-	-	-	18.46	18.65	0.19	85.77	67.26
04/01/03	-	-	-	-	-	-	-	-	18.18	18.30	0.12	85.77	67.56
11/01/03	-	-	-	-	-	-	-	-	17.12	17.30	0.18	85.77	68.61
	WELL DESTROYED												
WELL # STF-11AA													
12/28/05	-	-	-	-	-	-	-	-	NP	17.52	0.00	87.05	-
04/13/06	-	-	-	-	-	-	-	-	18.04	18.06	0.02	87.05	69.01
12/04/06	-	-	-	-	-	-	-	-	18.50	18.56	0.06	87.05	68.54
05/01/07	-	-	-	-	-	-	-	-	18.80	19.42	0.62	87.05	68.10
09/25/07	-	-	-	-	-	-	-	-	18.71	21.34	2.63	87.05	67.70
03/27/08	-	-	-	-	-	-	-	-	18.63	21.62	2.99	87.05	67.49
09/22/08	-	-	-	-	-	-	-	-	19.10	22.15	3.05	87.05	67.20
03/26/09	-	-	-	-	-	-	-	-	19.16	22.70	3.54	87.05	67.02
07/31/09	WELL DESTROYED												
WELL # STF-11B Area = STF S of Foster													
03/30/11	-	-	-	-	-	-	-	-	NP	20.33	0.00	87.32	66.99
09/28/11	-	-	-	-	-	-	-	-	NP	21.22	0.00	87.32	66.10
04/03/12	-	-	-	-	-	-	-	-	NP	21.27	0.00	87.32	66.05
09/27/12	-	-	-	-	-	-	-	-	21.20	24.55	3.35	87.32	66.30
03/22/13	-	-	-	-	-	-	-	-	20.63	24.55	3.92	87.32	66.73
09/25/13	-	-	-	-	-	-	-	-	21.24	24.50	3.26	87.32	66.28
04/02/14	-	-	-	-	-	-	-	-	21.15	21.45	0.30	87.32	66.10
WELL # STF-12													
09/20/85	-	-	-	-	-	-	-	-	NP	17.90	0.00	88.30	70.40
06/20/86	-	-	-	-	-	-	-	-	NP	19.21	0.00	88.30	69.09
02/26/87	-	-	-	-	-	-	-	-	NP	20.11	0.00	88.30	68.19
06/28/87	-	-	-	-	-	-	-	-	20.18	20.22	0.04	88.30	68.11
02/08/88	-	-	-	-	-	-	-	-	NP	19.43	0.00	88.30	68.87
03/29/89	-	-	-	-	-	-	-	-	NP	19.17	0.00	88.30	69.13
03/26/90	-	-	-	-	-	-	-	-	NP	19.21	0.00	88.32	69.11
02/19/91	-	-	-	-	-	-	-	-	NP	19.92	0.00	88.32	68.40
03/02/92	-	-	-	-	-	-	-	-	DRY	-	-	88.28	-
02/27/93	-	-	-	-	-	-	-	-	NP	19.21	0.00	88.28	69.07
04/18/94	-	-	-	-	-	-	-	-	DRY	-	-	88.28	-
04/22/95	-	-	-	-	-	-	-	-	DRY	-	-	88.28	-
04/10/96	-	-	-	-	-	-	-	-	NP	19.18	0.00	88.28	69.10
05/01/97	-	-	-	-	-	-	-	-	NP	19.18	0.00	88.28	69.10
04/21/98	-	-	-	-	-	-	-	-	16.11	16.17	0.06	88.28	72.16
04/26/99	-	-	-	-	-	-	-	-	18.83	19.03	0.20	88.28	69.40
04/10/00	-	-	-	-	-	-	-	-	NP	19.28	0.00	88.28	69.00

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	Ethylbenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
04/04/01	-	-	-	-	-	-	-	-	18.55	18.75	0.20	88.28	69.88
04/01/02	-	-	-	-	-	-	-	-	NP	19.22	0.00	88.28	69.06
11/01/02	-	-	-	-	-	-	-	-	NP	19.34	0.00	88.28	68.94
04/01/03	-	-	-	-	-	-	-	-	NP	19.30	0.00	88.28	68.98
11/01/03	-	-	-	-	-	-	-	-	NP	19.42	0.00	88.28	68.86
03/30/04	-	-	-	-	-	-	-	-	NP	19.49	0.00	88.28	68.79
	WELL DESTROYED												
WELL # STF-12A													
12/26/05	-	-	-	-	-	-	-	-	16.43	18.32	1.89	86.57	-
04/13/06	-	-	-	-	-	-	-	-	16.77	18.92	2.15	86.57	69.27
12/04/06	-	-	-	-	-	-	-	-	17.30	19.13	1.83	86.57	68.82
06/01/07	-	-	-	-	-	-	-	-	17.42	20.59	3.17	86.57	68.37
09/26/07	-	-	-	-	-	-	-	-	17.61	21.74	4.13	86.57	67.95
03/27/08	-	-	-	-	-	-	-	-	17.93	24.10	6.17	86.57	67.13
09/22/08	-	-	-	-	-	-	-	-	18.23	24.35	6.12	86.57	66.84
03/26/09	-	-	-	-	-	-	-	-	18.61	23.71	5.10	86.57	66.71
07/31/09	WELL DESTROYED												
WELL # STF-12B Area = STF S of Foster													
03/30/11	-	-	-	-	-	-	-	-	18.50	19.24	0.74	86.33	67.65
09/28/11	-	-	-	-	-	-	-	-	18.61	19.47	0.86	86.33	67.51
04/03/12	-	-	-	-	-	-	-	-	19.09	19.82	0.73	86.33	67.06
09/27/12	-	-	-	-	-	-	-	-	19.21	20.13	0.92	86.33	66.89
03/22/13	-	-	-	-	-	-	-	-	19.30	20.70	1.40	86.33	66.69
09/25/13	-	-	-	-	-	-	-	-	19.66	22.12	2.56	86.33	66.14
04/02/14	-	-	-	-	-	-	-	-	19.83	19.86	0.03	86.33	66.49
WELL # STF-13													
09/20/85	-	-	-	-	-	-	-	-	NP	20.02	0.00	87.20	67.18
06/20/86	-	-	-	-	-	-	-	-	NP	20.06	0.00	87.20	67.14
02/26/87	-	-	-	-	-	-	-	-	NP	19.91	0.00	87.20	67.29
04/29/87	-	-	-	-	-	-	-	-	NP	19.15	0.00	87.20	68.05
02/08/88	-	-	-	-	-	-	-	-	NP	20.20	0.00	87.20	67.00
03/29/89	-	-	-	-	-	-	-	-	NP	20.29	0.00	87.20	66.91
03/26/90	-	-	-	-	-	-	-	-	NP	20.36	0.00	87.24	66.88
02/19/91	-	-	-	-	-	-	-	-	DRY	-	-	87.24	-
03/02/92	-	-	-	-	-	-	-	-	DRY	-	-	87.19	-
02/27/93	-	-	-	-	-	-	-	-	NP	19.62	0.00	87.19	67.57
11/01/93	-	-	-	-	-	-	-	-	NP	20.75	0.00	87.19	66.44
04/18/94	-	-	-	-	-	-	-	-	DRY	-	-	87.19	-
04/22/95	-	-	-	-	-	-	-	-	DRY	-	-	87.19	-
04/10/96	-	-	-	-	-	-	-	-	DRY	-	-	87.19	-
04/28/97	-	-	-	-	-	-	-	-	DRY	-	-	87.19	-
04/21/98	-	-	-	-	-	-	-	-	NP	19.82	0.00	87.19	67.37
04/26/99	-	-	-	-	-	-	-	-	NP	19.90	0.00	87.19	67.29
04/10/00	-	-	-	-	-	-	-	-	NP	19.91	0.00	87.19	67.28
04/02/01	-	-	-	-	-	-	-	-	NP	20.02	0.00	87.19	67.17
	WELL DESTROYED												
WELL # STF-14													
09/20/85	-	-	-	-	-	-	-	-	NP	19.94	0.00	88.40	68.46
06/20/86	-	-	-	-	-	-	-	-	NP	19.93	0.00	88.40	68.47
02/26/87	-	-	-	-	-	-	-	-	NP	16.75	0.00	88.40	71.65
02/08/88	-	-	-	-	-	-	-	-	NP	19.87	0.00	88.40	68.53
03/29/89	-	-	-	-	-	-	-	-	NP	19.96	0.00	88.40	68.44
03/26/90	-	-	-	-	-	-	-	-	NP	20.02	0.00	88.45	68.43
02/19/91	-	-	-	-	-	-	-	-	NP	20.08	0.00	88.45	68.37
03/02/92	-	-	-	-	-	-	-	-	NP	18.50	0.00	88.38	69.88
02/27/93	-	-	-	-	-	-	-	-	19.96	20.73	0.77	88.38	68.23
04/18/94	-	-	-	-	-	-	-	-	DRY	-	-	88.38	-
04/20/95	-	-	-	-	-	-	-	-	NP	19.14	0.00	88.38	69.24
04/11/96	-	-	-	-	-	-	-	-	NP	19.84	0.00	88.38	68.54
04/28/97	-	-	-	-	-	-	-	-	NP	20.23	0.00	88.38	68.15
04/21/98	-	-	-	-	-	-	-	-	NP	17.53	0.00	88.38	70.85
04/26/99	-	-	-	-	-	-	-	-	NP	19.87	0.00	88.38	68.51
04/10/00	-	-	-	-	-	-	-	-	NP	19.38	0.00	88.38	69.00
04/02/01	-	-	-	-	-	-	-	-	NP	18.89	0.00	88.38	69.49
04/02/01	WELL DESTROYED												
WELL # STF-15 Area = STF S of Foster													
11/30/94	-	-	-	-	-	-	-	-	26.25	29.92	3.67	87.87	60.72
11/10/95	-	-	-	-	-	-	-	-	24.72	26.03	1.31	87.87	62.83
04/28/97	-	-	-	-	-	-	-	-	23.50	24.67	1.17	87.87	64.08
11/07/97	-	-	-	-	-	-	-	-	23.96	24.68	0.72	87.87	63.73
04/20/98	-	-	-	-	-	-	-	-	22.10	23.56	1.46	87.87	65.41
04/27/99	-	-	-	-	-	-	-	-	23.28	23.45	0.17	87.87	64.55
04/10/00	-	-	-	-	-	-	-	-	23.72	23.96	0.24	87.87	64.09
04/02/01	-	-	-	-	-	-	-	-	23.33	23.91	0.58	87.87	64.40
04/01/02	-	-	-	-	-	-	-	-	25.24	25.90	0.66	87.87	62.47
04/01/03	-	-	-	-	-	-	-	-	25.00	25.02	0.02	87.87	62.87
11/01/03	-	-	-	-	-	-	-	-	23.40	25.16	1.76	87.87	64.04
03/30/04	-	-	-	-	-	-	-	-	24.47	26.08	1.61	87.87	63.01
11/22/04	-	-	-	-	-	-	-	-	24.59	25.32	0.73	(1)	-
03/29/05	-	-	-	-	-	-	-	-	23.29	24.26	0.97	(1)	-
12/07/05	-	-	-	-	-	-	-	-	24.46	25.14	0.68	(1)	-

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT (feet)	DEPTH TO GROUNDWATER (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)					
04/11/06	-	-	-	-	-	-	-	-	24.86	25.63	0.77	91.04	65.99
12/04/06	-	-	-	-	-	-	-	-	25.31	25.38	0.07	91.04	65.71
05/01/07	-	-	-	-	-	-	-	-	24.58	25.75	1.17	91.04	65.17
09/27/07	-	-	-	-	-	-	-	-	24.73	26.29	1.56	91.04	65.93
03/27/08	-	-	-	-	-	-	-	-	25.06	26.55	1.49	91.04	65.61
09/22/08	-	-	-	-	-	-	-	-	NP	26.06	0.00	91.04	64.98
03/26/09	-	-	-	-	-	-	-	-	NP	22.34	0.00	91.04	68.70
10/12/09	-	-	-	-	-	-	-	-	25.20	25.71	0.51	91.04	65.72
05/04/10	-	-	-	-	-	-	-	-	24.90	26.36	1.46	91.04	65.78
10/06/10	-	-	-	-	-	-	-	-	NP	26.17	0.00	91.04	64.87
03/30/11	-	-	-	-	-	-	-	-	24.80	26.42	1.62	91.04	65.84
09/28/11	-	-	-	-	-	-	-	-	23.98	26.35	2.37	91.04	66.48
04/03/12	-	-	-	-	-	-	-	-	NP	25.48	0.00	91.04	65.58
09/26/12	-	-	-	-	-	-	-	-	25.40	28.20	2.80	91.04	64.95
03/20/13	-	-	-	-	-	-	-	-	25.38	28.10	2.72	91.04	64.99
09/25/13	-	-	-	-	-	-	-	-	25.55	27.90	2.35	91.04	64.91
04/02/14	-	-	-	-	-	-	-	-	25.78	28.08	2.30	91.04	64.70
WELL # STF-16	Area = STF S of Foster												
11/30/94	-	-	-	-	-	-	-	-	25.43	28.15	2.72	88.00	61.90
11/10/95	-	-	-	-	-	-	-	-	24.63	26.10	1.47	88.00	63.01
04/11/96	-	-	-	-	-	-	-	-	23.91	25.38	1.47	88.00	63.73
04/28/97	-	-	-	-	-	-	-	-	23.58	24.35	0.77	88.00	64.23
04/20/98	-	-	-	-	-	-	-	-	22.00	23.66	1.66	88.00	65.59
04/27/99	-	-	-	-	-	-	-	-	23.55	23.61	0.06	88.00	64.44
04/10/00	-	-	-	-	-	-	-	-	23.92	24.10	0.18	88.00	64.04
04/02/01	-	-	-	-	-	-	-	-	23.20	24.40	1.20	88.00	64.51
04/01/02	-	-	-	-	-	-	-	-	24.29	25.16	0.87	88.00	63.50
11/01/02	-	-	-	-	-	-	-	-	24.55	24.68	0.13	88.00	63.42
04/01/03	-	-	-	-	-	-	-	-	23.77	24.86	1.09	88.00	63.96
11/01/03	-	-	-	-	-	-	-	-	23.49	24.95	1.46	88.00	64.15
03/30/04	-	-	-	-	-	-	-	-	25.00	26.33	1.33	88.00	62.67
11/22/04	-	-	-	-	-	-	-	-	24.66	26.03	-	(1)	-
03/29/05	-	-	-	-	-	-	-	-	23.10	25.74	2.64	(1)	-
12/07/05	-	-	-	-	-	-	-	-	22.89	24.30	1.41	(1)	-
04/11/06	-	-	-	-	-	-	-	-	23.41	24.45	1.04	(1)	-
12/05/06	-	-	-	-	-	-	-	-	23.40	24.82	1.42	(1)	-
05/01/07	-	-	-	-	-	-	-	-	23.80	23.89	0.09	88.00	64.18
09/27/07	-	-	-	-	-	-	-	-	23.97	24.15	0.18	88.00	63.99
03/27/08	-	-	-	-	-	-	-	-	24.34	24.55	0.21	88.00	63.61
09/22/08	-	-	-	-	-	-	-	-	24.50	24.56	0.06	88.00	63.49
03/26/09	-	-	-	-	-	-	-	-	21.70	22.73	1.03	88.00	66.05
10/12/09	-	-	-	-	-	-	-	-	24.55	25.26	0.71	88.00	63.28
05/04/10	-	-	-	-	-	-	-	-	23.85	25.50	1.65	88.00	63.75
10/06/10	-	-	-	-	-	-	-	-	23.90	26.96	3.06	88.00	63.35
03/30/11	-	-	-	-	-	-	-	-	23.40	24.41	1.01	88.00	64.35
09/28/11	-	-	-	-	-	-	-	-	22.98	24.70	1.72	88.00	64.60
04/03/12	-	-	-	-	-	-	-	-	23.98	26.48	2.50	88.00	63.41
09/26/12	-	-	-	-	-	-	-	-	22.10	27.50	5.40	88.00	64.58
03/20/13	-	-	-	-	-	-	-	-	24.45	26.65	2.20	88.00	63.01
09/25/13	-	-	-	-	-	-	-	-	24.52	27.15	2.63	88.00	62.84
04/02/14	-	-	-	-	-	-	-	-	24.78	27.20	2.42	88.00	62.63
WELL # STF-17	Area = STF S of Foster												
11/30/94	-	-	-	-	-	-	-	-	25.75	28.02	2.27	87.61	61.30
11/10/95	-	-	-	-	-	-	-	-	23.80	24.46	0.66	87.61	63.64
04/11/96	-	-	-	-	-	-	-	-	23.42	24.18	0.76	87.61	64.00
04/28/97	-	-	-	-	-	-	-	-	23.08	23.35	0.27	87.61	64.46
04/20/98	-	-	-	-	-	-	-	-	21.36	22.68	1.32	87.61	65.93
04/27/99	-	-	-	-	-	-	-	-	22.75	23.12	0.37	87.61	64.77
04/10/00	-	-	-	-	-	-	-	-	NP	23.33	0.00	87.61	64.28
04/02/01	-	-	-	-	-	-	-	-	22.75	22.79	0.04	87.61	64.85
04/01/02	-	-	-	-	-	-	-	-	24.98	25.10	0.12	87.61	62.60
11/01/02	-	-	-	-	-	-	-	-	25.30	25.36	0.06	87.61	62.30
04/01/03	-	-	-	-	-	-	-	-	23.35	23.72	0.37	87.61	64.17
11/01/03	-	-	-	-	-	-	-	-	23.07	23.14	0.07	87.61	64.52
03/30/04	-	-	-	-	-	-	-	-	24.65	24.85	0.20	87.61	62.91
11/22/04	-	-	-	-	-	-	-	-	-	24.39	0.00	(1)	-
03/29/05	-	-	-	-	-	-	-	-	22.97	23.98	1.01	(1)	-
12/07/05	-	-	-	-	-	-	-	-	23.04	23.32	0.28	(1)	-
04/11/06	-	-	-	-	-	-	-	-	23.60	23.66	0.06	(1)	-
12/05/06	-	-	-	-	-	-	-	-	23.80	24.06	0.26	(1)	-
05/01/07	-	-	-	-	-	-	-	-	23.90	24.49	0.59	87.61	63.57
09/27/07	-	-	-	-	-	-	-	-	23.92	25.20	1.28	87.61	63.38
03/27/08	-	-	-	-	-	-	-	-	24.36	25.05	0.69	87.61	63.08
09/22/08	-	-	-	-	-	-	-	-	24.61	25.66	1.05	87.61	62.84
03/26/09	-	-	-	-	-	-	-	-	24.63	25.66	1.03	87.61	62.83
10/12/09	-	-	-	-	-	-	-	-	24.58	25.32	0.74	87.61	62.85
05/04/10	-	-	-	-	-	-	-	-	NP	24.33	0.00	87.61	63.28
10/06/10	-	-	-	-	-	-	-	-	24.53	25.35	0.82	87.61	62.88
03/30/11	-	-	-	-	-	-	-	-	24.13	24.32	0.19	87.61	63.43
09/28/11	-	-	-	-	-	-	-	-	24.20	24.55	0.35	87.61	63.32
04/03/12	-	-	-	-	-	-	-	-	24.35	25.97	1.62	87.61	62.86
09/26/12	-	-	-	-	-	-	-	-	24.60	25.85	1.25	87.61	62.70

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
03/20/13	-	-	-	-	-	-	-	-	24.65	26.74	2.09	87.61	62.45
09/25/13	-	-	-	-	-	-	-	-	24.76	27.00	2.25	87.61	62.31
04/02/14	-	-	-	-	-	-	-	-	24.95	27.19	2.24	87.61	62.11
WELL # STF-18 Area = STF S of Foster													
11/30/94	-	-	-	-	-	-	-	-	23.58	25.35	1.77	87.55	63.54
11/10/95	-	-	-	-	-	-	-	-	23.40	23.64	0.24	87.55	64.09
04/11/96	-	-	-	-	-	-	-	-	23.33	23.62	0.29	87.55	64.15
04/28/97	-	-	-	-	-	-	-	-	NP	24.46	0.00	87.55	63.09
04/20/98	-	-	-	-	-	-	-	-	21.35	21.35	0.00	87.55	66.20
04/27/99	-	-	-	-	-	-	-	-	NP	22.62	0.00	87.55	64.93
04/10/00	-	-	-	-	-	-	-	-	23.10	23.22	0.12	87.55	64.42
04/02/01	-	-	-	-	-	-	-	-	NP	22.55	0.00	87.55	65.00
04/01/02	-	-	-	-	-	-	-	-	23.21	23.88	0.67	87.55	64.18
11/01/02	-	-	-	-	-	-	-	-	23.57	24.87	1.30	87.55	63.66
04/01/03	-	-	-	-	-	-	-	-	NP	23.41	0.00	87.55	64.14
11/01/03	-	-	-	-	-	-	-	-	NP	22.85	0.00	87.55	64.70
03/30/04	-	-	-	-	-	-	-	-	NP	24.56	0.00	87.55	62.99
11/22/04	-	-	-	-	-	-	-	-	24.11	24.18	0.07	(1)	-
03/29/05	-	-	-	-	-	-	-	-	NP	19.63	0.00	(1)	-
12/07/05	-	-	-	-	-	-	-	-	NP	22.54	0.00	(1)	-
04/11/06	-	-	-	-	-	-	-	-	23.10	23.14	0.04	(1)	-
12/05/06	-	-	-	-	-	-	-	-	NP	23.31	0.00	(1)	-
05/01/07	-	-	-	-	-	-	-	-	NP	18.05	0.00	87.55	69.50
09/27/07	-	-	-	-	-	-	-	-	NP	23.67	0.00	87.55	63.88
03/27/08	-	-	-	-	-	-	-	-	23.92	24.28	0.36	87.55	63.54
09/22/08	-	-	-	-	-	-	-	-	23.95	25.30	1.35	87.55	63.27
03/26/09	-	-	-	-	-	-	-	-	23.91	25.34	1.43	87.55	63.29
10/12/09	-	-	-	-	-	-	-	-	24.04	25.90	1.86	87.55	63.05
05/04/10	-	-	-	-	-	-	-	-	23.60	25.25	1.65	87.55	63.65
10/06/10	-	-	-	-	-	-	-	-	23.77	26.71	2.94	87.55	63.06
03/30/11	-	-	-	-	-	-	-	-	23.41	24.68	1.27	87.55	63.83
09/28/11	-	-	-	-	-	-	-	-	23.13	25.92	2.79	87.55	63.74
04/03/12	-	-	-	-	-	-	-	-	23.73	26.32	2.59	87.55	63.19
09/26/12	-	-	-	-	-	-	-	-	23.70	27.70	4.00	87.55	62.87
03/20/13	-	-	-	-	-	-	-	-	24.10	26.50	2.40	87.55	62.66
09/25/13	-	-	-	-	-	-	-	-	24.25	26.55	2.30	87.55	62.74
04/02/14	-	-	-	-	-	-	-	-	24.45	27.06	2.60	87.55	62.48
WELL # STF-19 Area = STF S of Foster													
11/30/94	-	-	-	-	-	-	-	-	NP	25.75	0.00	87.21	61.46
11/10/95	-	-	-	-	-	-	-	-	NP	22.73	0.00	87.21	64.48
04/11/96	-	-	-	-	-	-	-	-	NP	22.89	0.00	87.21	64.32
04/28/97	-	-	-	-	-	-	-	-	NP	22.46	0.00	87.21	64.75
04/20/98	-	-	-	-	-	-	-	-	NP	20.79	0.00	87.21	66.42
04/27/99	-	-	-	-	-	-	-	-	22.23	22.32	0.09	87.21	64.96
04/10/00	-	-	-	-	-	-	-	-	22.74	22.83	0.09	87.21	64.45
04/02/01	-	-	-	-	-	-	-	-	NP	22.12	0.00	87.21	65.09
04/01/02	-	-	-	-	-	-	-	-	NP	22.88	0.00	87.21	64.33
11/01/02	-	-	-	-	-	-	-	-	22.39	22.45	0.06	87.21	64.81
04/01/03	-	-	-	-	-	-	-	-	NP	22.75	0.00	87.21	64.46
11/01/03	-	-	-	-	-	-	-	-	NP	22.44	0.00	87.21	64.77
03/30/04	-	-	-	-	-	-	-	-	NP	24.54	0.00	87.21	62.67
11/22/04	-	-	-	-	-	-	-	-	NP	23.85	0.00	(1)	-
03/29/05	-	-	-	-	-	-	-	-	NP	22.54	0.00	(1)	-
12/07/05	-	-	-	-	-	-	-	-	NP	22.92	0.00	(1)	-
04/11/06	-	-	-	-	-	-	-	-	NP	23.51	0.00	90.48	66.97
12/05/06	-	-	-	-	-	-	-	-	NP	23.65	0.00	90.48	66.83
05/01/07	-	-	-	-	-	-	-	-	NP	24.94	0.00	90.48	65.54
09/27/07	-	-	-	-	-	-	-	-	23.96	24.74	0.78	90.48	66.33
03/27/08	-	-	-	-	-	-	-	-	24.33	25.08	0.75	90.48	65.97
09/22/08	-	-	-	-	-	-	-	-	24.60	24.69	0.09	90.48	65.86
03/26/09	-	-	-	-	-	-	-	-	24.51	24.60	0.09	90.48	65.95
10/12/09	-	-	-	-	-	-	-	-	24.80	24.89	0.09	90.48	65.68
05/04/10	-	-	-	-	-	-	-	-	NP	24.33	0.00	90.48	66.15
10/06/10	-	-	-	-	-	-	-	-	NP	24.53	0.00	90.48	65.95
03/30/11	-	-	-	-	-	-	-	-	NP	24.06	0.00	90.48	66.42
09/28/11	-	-	-	-	-	-	-	-	NP	24.10	0.00	90.48	66.38
04/03/12	-	-	-	-	-	-	-	-	NP	24.58	0.00	90.48	65.90
09/26/12	-	-	-	-	-	-	-	-	NP	24.60	0.00	90.48	65.88
03/20/13	-	-	-	-	-	-	-	-	NP	25.00	0.00	90.48	65.48
09/25/13	-	-	-	-	-	-	-	-	NP	25.13	0.00	90.48	65.35
04/02/14	-	-	-	-	-	-	-	-	NP	25.30	0.00	90.48	65.18
WELL # STF-20 Area = STF S of Foster													
11/30/94	-	-	-	-	-	-	-	-	NP	25.29	0.00	87.19	61.90
11/10/95	-	-	-	-	-	-	-	-	NP	22.66	0.00	87.19	64.53
04/11/96	-	-	-	-	-	-	-	-	NP	22.75	0.00	87.19	64.44
04/28/97	-	-	-	-	-	-	-	-	NP	22.31	0.00	87.19	64.88
04/20/98	-	-	-	-	-	-	-	-	NP	20.57	0.00	87.19	66.62
04/27/99	-	-	-	-	-	-	-	-	NP	22.11	0.00	87.19	65.08
04/10/00	-	-	-	-	-	-	-	-	NP	22.61	0.00	87.19	64.58
04/02/01	-	-	-	-	-	-	-	-	NP	21.95	0.00	87.19	65.24
04/01/02	-	-	-	-	-	-	-	-	NP	22.75	0.00	87.19	64.44

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
11/01/02	-	-	-	-	-	-	-	-	NP	23.25	0.00	87.19	63.94
04/01/03	-	-	-	-	-	-	-	-	NP	22.57	0.00	87.19	64.62
11/01/03	-	-	-	-	-	-	-	-	NO ACCESS	-	-	87.19	-
03/30/04	-	-	-	-	-	-	-	-	NP	24.68	0.00	87.19	62.51
11/22/04	-	-	-	-	-	-	-	-	NP	23.73	0.00	(1)	-
03/29/05	-	-	-	-	-	-	-	-	NP	22.42	0.00	(1)	-
12/05/06	-	-	-	-	-	-	-	-	NP	23.52	0.00	(1)	-
05/01/07	-	-	-	-	-	-	-	-	NP	23.81	0.00	87.19	63.38
09/27/07	-	-	-	-	-	-	-	-	NP	23.98	0.00	87.19	63.21
03/27/08	-	-	-	-	-	-	-	-	NP	24.31	0.00	87.19	62.88
09/22/08	-	-	-	-	-	-	-	-	NP	24.51	0.00	87.19	62.68
03/26/09	-	-	-	-	-	-	-	-	NP	24.51	0.00	87.19	62.68
10/12/09	-	-	-	-	-	-	-	-	NP	24.68	0.00	87.19	62.51
05/04/10	-	-	-	-	-	-	-	-	NP	24.35	0.00	87.19	62.84
10/06/10	-	-	-	-	-	-	-	-	NP	24.68	0.00	87.19	62.51
03/30/11	-	-	-	-	-	-	-	-	NP	24.01	0.00	87.19	63.18
09/28/11	-	-	-	-	-	-	-	-	24.05	24.18	0.13	87.19	63.11
04/03/12	-	-	-	-	-	-	-	-	24.47	24.68	0.21	87.19	62.67
09/26/12	-	-	-	-	-	-	-	-	24.60	24.80	0.20	87.19	62.54
03/20/13	-	-	-	-	-	-	-	-	24.90	25.00	0.10	87.19	62.27
09/25/13	-	-	-	-	-	-	-	-	NP	25.08	0.00	87.19	62.11
04/02/14	-	-	-	-	-	-	-	-	NP	25.15	0.00	87.19	62.04
WELL # STF-21	Area = STF S of Foster												
11/30/95	-	-	-	-	-	-	-	-	NP	24.02	0.00	87.04	63.02
04/11/96	-	-	-	-	-	-	-	-	22.47	22.67	0.20	87.04	64.52
04/28/97	-	-	-	-	-	-	-	-	NP	22.08	0.00	87.04	64.96
04/20/98	-	-	-	-	-	-	-	-	NP	20.24	0.00	87.04	66.80
04/27/99	-	-	-	-	-	-	-	-	NP	21.88	0.00	87.04	65.16
04/10/00	-	-	-	-	-	-	-	-	NP	22.34	0.00	87.04	64.70
04/02/01	-	-	-	-	-	-	-	-	NP	21.65	0.00	87.04	66.39
04/01/02	-	-	-	-	-	-	-	-	NP	22.54	0.00	87.04	64.50
11/01/02	-	-	-	-	-	-	-	-	NP	23.04	0.00	87.04	64.00
04/01/03	-	-	-	-	-	-	-	-	NP	22.28	0.00	87.04	64.76
11/01/03	-	-	-	-	-	-	-	-	NP	22.98	0.00	87.04	64.06
03/30/04	-	-	-	-	-	-	-	-	NP	24.18	0.00	87.04	62.86
11/22/04	-	-	-	-	-	-	-	-	NP	23.23	0.00	(1)	-
03/29/05	-	-	-	-	-	-	-	-	NP	22.01	0.00	(1)	-
07/20/05	-	-	-	-	-	-	-	-	NP	24.25	0.00	(1)	-
04/11/06	-	-	-	-	-	-	-	-	NP	23.85	0.00	(1)	-
12/05/06	-	-	-	-	-	-	-	-	NP	23.88	0.00	(1)	-
05/01/07	-	-	-	-	-	-	-	-	NP	24.12	0.00	87.04	62.92
09/27/07	-	-	-	-	-	-	-	-	24.29	24.37	0.08	87.04	62.73
03/27/08	-	-	-	-	-	-	-	-	24.63	24.74	0.11	87.04	62.38
09/22/08	-	-	-	-	-	-	-	-	NP	24.86	0.00	87.04	62.18
03/26/09	-	-	-	-	-	-	-	-	NP	24.87	0.00	87.04	62.17
10/12/09	-	-	-	-	-	-	-	-	NP	25.03	0.00	87.04	62.01
05/04/10	-	-	-	-	-	-	-	-	NP	24.88	0.00	87.04	62.16
10/06/10	-	-	-	-	-	-	-	-	NP	25.18	0.00	87.04	61.86
03/30/11	-	-	-	-	-	-	-	-	NP	24.43	0.00	87.04	62.61
09/28/11	-	-	-	-	-	-	-	-	24.43	25.08	0.65	87.04	62.45
04/03/12	-	-	-	-	-	-	-	-	24.74	25.48	0.74	87.04	62.12
09/26/12	-	-	-	-	-	-	-	-	25.10	25.42	0.32	87.04	61.86
03/20/13	-	-	-	-	-	-	-	-	25.20	25.37	0.17	87.04	61.80
09/25/13	-	-	-	-	-	-	-	-	NP	25.43	0.00	87.04	61.61
04/02/14	-	-	-	-	-	-	-	-	NP	25.50	0.00	87.04	61.54
WELL # STF-22	Area = STF S of Foster												
11/30/94	-	-	-	-	-	-	-	-	24.88	26.31	1.43	86.96	61.73
11/10/95	-	-	-	-	-	-	-	-	22.25	23.03	0.78	86.96	64.52
04/11/96	-	-	-	-	-	-	-	-	22.24	22.54	0.30	86.96	64.65
04/28/97	-	-	-	-	-	-	-	-	22.83	22.92	0.09	86.96	64.11
04/20/98	-	-	-	-	-	-	-	-	19.62	20.34	0.62	86.96	67.01
04/27/99	-	-	-	-	-	-	-	-	NP	21.50	0.00	86.96	65.46
04/10/00	-	-	-	-	-	-	-	-	NP	22.43	0.00	86.96	64.53
04/02/01	-	-	-	-	-	-	-	-	NP	21.40	0.00	86.96	65.56
04/01/02	-	-	-	-	-	-	-	-	22.15	22.99	0.84	86.96	64.80
11/01/02	-	-	-	-	-	-	-	-	22.76	23.88	1.12	86.96	63.93
04/01/03	-	-	-	-	-	-	-	-	NP	21.98	0.00	86.96	64.98
11/01/03	-	-	-	-	-	-	-	-	NP	21.74	0.00	86.96	65.22
03/30/04	-	-	-	-	-	-	-	-	NP	24.08	0.00	86.96	62.88
11/22/04	-	-	-	-	-	-	-	-	NP	23.01	0.00	(1)	-
03/29/05	-	-	-	-	-	-	-	-	NP	21.63	0.00	(1)	-
12/06/05	-	-	-	-	-	-	-	-	-	22.93	film	(1)	-
04/11/06	-	-	-	-	-	-	-	-	23.65	23.68	0.03	(1)	-
12/05/06	-	-	-	-	-	-	-	-	NP	23.84	0.00	(1)	-
05/01/07	-	-	-	-	-	-	-	-	24.12	24.15	0.03	86.96	62.83
09/27/07	-	-	-	-	-	-	-	-	24.12	24.82	0.70	86.96	62.87
03/27/08	-	-	-	-	-	-	-	-	24.38	25.78	1.40	86.96	62.24
09/22/08	-	-	-	-	-	-	-	-	24.58	26.00	1.44	86.96	62.05
03/26/09	-	-	-	-	-	-	-	-	24.50	26.24	1.74	86.96	62.03
10/12/09	-	-	-	-	-	-	-	-	24.64	26.80	2.16	86.96	61.79
05/04/10	-	-	-	-	-	-	-	-	24.26	26.10	1.84	86.96	62.26
10/06/10	-	-	-	-	-	-	-	-	24.44	26.45	2.01	86.96	62.03
03/30/11	-	-	-	-	-	-	-	-	23.90	25.17	1.27	86.96	62.75

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT (feet)	DEPTH TO GROUNDWATER (feet)	PRODUCT THICKNESS (feet)	CASING ELEVATION (feet)	GROUNDWATER ELEVATION (feet)
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)					
09/26/11	-	-	-	-	-	-	-	-	23.50	25.62	2.12	86.96	62.94
04/03/12	-	-	-	-	-	-	-	-	24.43	26.60	2.17	86.96	62.00
09/26/12	-	-	-	-	-	-	-	-	24.40	27.73	3.33	86.96	61.74
03/20/13	-	-	-	-	-	-	-	-	24.90	26.87	1.97	86.96	61.56
09/25/13	-	-	-	-	-	-	-	-	25.05	27.00	1.95	86.96	61.43
04/02/14	-	-	-	-	-	-	-	-	25.12	27.48	2.36	86.96	61.26
WELL # STF-23 Area = STF S of Foster													
11/30/94	-	-	-	-	-	-	-	-	NP	21.90	0.00	86.95	65.05
11/10/95	-	-	-	-	-	-	-	-	21.76	23.53	1.77	86.95	64.76
04/11/96	-	-	-	-	-	-	-	-	21.86	23.36	1.50	86.95	64.70
04/28/97	-	-	-	-	-	-	-	-	21.65	21.88	0.23	86.95	65.24
04/20/98	-	-	-	-	-	-	-	-	19.69	19.69	0.00	86.95	67.26
04/27/99	-	-	-	-	-	-	-	-	21.25	22.14	0.89	86.95	65.48
04/10/00	-	-	-	-	-	-	-	-	21.68	22.21	0.53	86.95	65.14
04/02/01	-	-	-	-	-	-	-	-	21.73	21.82	0.09	86.95	65.20
04/01/02	-	-	-	-	-	-	-	-	NP	24.05	0.00	86.95	62.90
11/01/02	-	-	-	-	-	-	-	-	NP	26.41	0.00	86.95	60.54
04/01/03	-	-	-	-	-	-	-	-	21.57	22.75	1.18	86.95	65.09
11/01/03	-	-	-	-	-	-	-	-	21.37	22.70	1.33	86.95	65.25
03/30/04	-	-	-	-	-	-	-	-	22.94	24.53	1.59	86.95	63.62
11/22/04	-	-	-	-	-	-	-	-	NP	23.19	0.00	(1)	-
03/29/05	-	-	-	-	-	-	-	-	21.50	22.89	1.39	(1)	-
12/13/05	-	-	-	-	-	-	-	-	22.30	22.86	0.56	(1)	-
04/11/06	-	-	-	-	-	-	-	-	23.06	23.16	0.10	(1)	-
12/05/06	-	-	-	-	-	-	-	-	NP	23.03	0.00	(1)	-
05/01/07	-	-	-	-	-	-	-	-	23.59	23.66	0.08	86.95	63.35
09/27/07	-	-	-	-	-	-	-	-	23.61	23.93	0.32	86.95	63.26
03/27/08	-	-	-	-	-	-	-	-	24.10	24.28	0.18	86.95	62.81
09/22/08	-	-	-	-	-	-	-	-	24.20	24.62	0.42	86.95	62.65
03/26/09	-	-	-	-	-	-	-	-	23.95	26.26	2.31	86.95	62.43
10/12/09	-	-	-	-	-	-	-	-	24.07	26.60	2.53	86.95	62.26
05/04/10	-	-	-	-	-	-	-	-	23.95	25.16	1.21	86.95	62.70
10/08/10	-	-	-	-	-	-	-	-	24.15	25.03	0.88	86.95	62.58
03/30/11	-	-	-	-	-	-	-	-	23.83	23.90	0.07	86.95	63.10
09/28/11	-	-	-	-	-	-	-	-	23.98	24.18	0.20	86.95	62.92
04/03/12	-	-	-	-	-	-	-	-	NO ACCESS	-	-	86.95	-
09/26/12	-	-	-	-	-	-	-	-	24.30	24.87	0.57	86.95	62.61
03/20/13	-	-	-	-	-	-	-	-	24.60	25.35	0.75	86.95	62.17
09/25/13	-	-	-	-	-	-	-	-	24.80	25.45	0.65	86.95	61.99
04/02/14	-	-	-	-	-	-	-	-	25.00	25.17	0.17	86.95	61.91
WELL # STF-24 Area = STF S of Foster													
11/30/94	-	-	-	-	-	-	-	-	24.40	25.48	1.08	86.70	62.04
11/10/95	-	-	-	-	-	-	-	-	21.72	22.03	0.31	86.70	64.90
04/11/96	-	-	-	-	-	-	-	-	21.28	21.38	0.10	86.70	65.40
04/28/97	-	-	-	-	-	-	-	-	21.25	21.42	0.17	86.70	65.41
04/20/98	-	-	-	-	-	-	-	-	18.52	18.70	0.18	86.70	68.14
04/27/99	-	-	-	-	-	-	-	-	NP	20.45	0.00	86.70	66.25
04/10/00	-	-	-	-	-	-	-	-	21.08	21.41	0.33	86.70	65.54
04/02/01	-	-	-	-	-	-	-	-	20.27	20.31	0.04	86.70	66.42
04/01/02	-	-	-	-	-	-	-	-	21.40	21.42	0.02	86.70	65.30
11/01/02	-	-	-	-	-	-	-	-	NP	22.01	0.00	86.70	64.69
04/01/03	-	-	-	-	-	-	-	-	20.94	21.06	0.12	86.70	65.73
11/01/03	-	-	-	-	-	-	-	-	20.67	21.01	0.34	86.70	65.95
03/30/04	-	-	-	-	-	-	-	-	23.00	23.33	0.33	86.70	63.62
11/22/04	-	-	-	-	-	-	-	-	22.47	22.48	0.01	(1)	-
03/29/05	-	-	-	-	-	-	-	-	-	20.69	-	(1)	-
12/06/05	-	-	-	-	-	-	-	-	21.10	21.18	0.08	(1)	-
04/11/06	-	-	-	-	-	-	-	-	21.80	22.06	0.26	(1)	-
12/05/06	-	-	-	-	-	-	-	-	NP	22.10	0.00	(1)	-
05/01/07	-	-	-	-	-	-	-	-	NP	22.49	0.00	86.70	64.21
09/27/07	-	-	-	-	-	-	-	-	NP	22.49	0.00	86.70	64.21
03/27/08	-	-	-	-	-	-	-	-	NP	22.85	0.00	86.70	63.85
09/22/08	-	-	-	-	-	-	-	-	23.11	23.20	0.09	86.70	63.57
03/26/09	-	-	-	-	-	-	-	-	22.94	24.05	1.11	86.70	63.49
10/12/09	-	-	-	-	-	-	-	-	23.15	24.27	1.12	86.70	63.28
05/04/10	-	-	-	-	-	-	-	-	22.80	24.26	1.46	86.70	63.54
10/08/10	-	-	-	-	-	-	-	-	23.17	24.31	1.14	86.70	63.25
03/30/11	-	-	-	-	-	-	-	-	NP	23.60	0.00	86.70	63.10
09/28/11	-	-	-	-	-	-	-	-	NP	22.80	0.00	86.70	63.90
04/03/12	-	-	-	-	-	-	-	-	NP	23.30	0.00	86.70	63.40
09/26/12	-	-	-	-	-	-	-	-	NP	23.57	0.00	86.70	63.13
03/20/13	-	-	-	-	-	-	-	-	23.62	24.08	0.46	86.70	62.97
09/25/13	-	-	-	-	-	-	-	-	23.63	25.20	1.57	86.70	62.69
04/02/14	-	-	-	-	-	-	-	-	23.90	24.98	1.08	86.70	62.54
WELL # STF-25 Area = STF S of Foster													
11/30/94	-	-	-	-	-	-	-	-	NP	22.02	0.00	86.95	64.93
11/10/95	-	-	-	-	-	-	-	-	20.90	23.17	2.27	86.95	65.49
04/11/96	-	-	-	-	-	-	-	-	21.24	21.62	0.38	86.95	65.62
04/28/97	-	-	-	-	-	-	-	-	21.00	21.48	0.48	86.95	65.83
04/20/98	-	-	-	-	-	-	-	-	18.46	18.49	0.03	86.95	68.46
04/27/99	-	-	-	-	-	-	-	-	20.14	20.18	0.04	86.95	66.80

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
04/10/00	-	-	-	-	-	-	-	-	NP	21.65	0.00	86.95	65.30
04/02/01	-	-	-	-	-	-	-	-	20.21	20.22	0.01	86.95	66.74
04/01/02	-	-	-	-	-	-	-	-	21.48	21.57	0.09	86.95	65.45
11/01/02	-	-	-	-	-	-	-	-	22.09	22.12	0.03	86.95	64.85
04/01/03	-	-	-	-	-	-	-	-	20.98	21.06	0.08	86.95	65.95
11/01/03	-	-	-	-	-	-	-	-	20.73	21.03	0.30	86.95	66.16
03/30/04	-	-	-	-	-	-	-	-	21.89	22.35	0.46	86.95	64.95
11/22/04	-	-	-	-	-	-	-	-	NP	22.34	0.00	(1)	-
03/29/05	-	-	-	-	-	-	-	-	NP	20.45	0.00	(1)	-
12/06/05	-	-	-	-	-	-	-	-	21.36	21.37	0.01	(1)	-
04/11/06	-	-	-	-	-	-	-	-	22.03	22.13	0.10	(1)	-
12/05/06	-	-	-	-	-	-	-	-	NP	22.42	0.00	(1)	-
05/01/07	-	-	-	-	-	-	-	-	NP	22.77	0.00	86.95	64.18
09/27/07	-	-	-	-	-	-	-	-	NP	22.72	0.00	86.70	63.98
03/27/08	-	-	-	-	-	-	-	-	NP	23.10	0.00	86.70	63.60
09/22/08	-	-	-	-	-	-	-	-	NP	23.41	0.00	86.70	63.29
03/26/09	-	-	-	-	-	-	-	-	23.40	23.42	0.02	86.70	63.30
10/12/09	-	-	-	-	-	-	-	-	23.60	23.66	0.06	86.70	63.09
05/04/10	-	-	-	-	-	-	-	-	NP	22.27	0.00	86.70	64.43
10/06/10	-	-	-	-	-	-	-	-	NP	22.55	0.00	86.70	64.15
03/30/11	-	-	-	-	-	-	-	-	NP	21.75	0.00	88.85	67.10
09/28/11	-	-	-	-	-	-	-	-	NP	22.10	0.00	88.85	66.75
04/03/12	-	-	-	-	-	-	-	-	NP	22.55	0.00	88.85	66.30
09/26/12	-	-	-	-	-	-	-	-	NP	22.65	0.00	88.85	66.20
03/20/13	-	-	-	-	-	-	-	-	NP	22.85	0.00	88.85	66.00
09/25/13	-	-	-	-	-	-	-	-	NP	23.23	0.00	88.85	65.62
04/02/14	-	-	-	-	-	-	-	-	NP	23.28	0.00	88.85	65.57
WELL # STF-26 Area = STF S of Foster													
11/30/94	-	-	-	-	-	-	-	-	20.46	20.54	0.08	85.56	65.08
11/10/95	-	-	-	-	-	-	-	-	20.16	20.18	0.02	85.56	65.40
04/11/96	-	-	-	-	-	-	-	-	19.68	19.70	0.02	85.56	65.88
04/28/97	-	-	-	-	-	-	-	-	NP	19.25	0.00	85.56	66.31
04/20/98	-	-	-	-	-	-	-	-	NP	16.81	0.00	85.56	68.75
04/27/99	-	-	-	-	-	-	-	-	NP	18.95	0.00	85.56	66.61
04/10/00	-	-	-	-	-	-	-	-	NP	19.64	0.00	85.56	65.92
04/02/01	-	-	-	-	-	-	-	-	NP	18.63	0.00	85.56	66.93
04/01/02	-	-	-	-	-	-	-	-	-	19.95	0.00	85.56	65.61
11/01/02	-	-	-	-	-	-	-	-	20.52	20.54	0.02	85.56	65.04
04/01/03	-	-	-	-	-	-	-	-	-	19.44	0.00	85.56	66.12
11/01/03	-	-	-	-	-	-	-	-	19.19	19.27	0.08	85.56	66.35
03/30/04	-	-	-	-	-	-	-	-	21.40	22.38	0.98	85.56	63.92
11/22/04	-	-	-	-	-	-	-	-	21.92	22.19	0.27	(1)	-
03/29/05	-	-	-	-	-	-	-	-	19.98	20.05	0.07	(1)	-
12/20/05	-	-	-	-	-	-	-	-	21.04	21.24	0.20	(1)	-
04/11/06	-	-	-	-	-	-	-	-	21.60	21.80	0.20	(1)	-
12/05/06	-	-	-	-	-	-	-	-	21.86	22.83	0.97	(1)	-
05/01/07	-	-	-	-	-	-	-	-	22.37	22.65	0.28	85.56	63.12
09/27/07	-	-	-	-	-	-	-	-	22.30	22.92	0.62	85.56	63.11
03/27/08	-	-	-	-	-	-	-	-	22.66	22.89	0.23	85.56	62.84
09/22/08	-	-	-	-	-	-	-	-	23.02	23.05	0.03	85.56	62.53
03/26/09	-	-	-	-	-	-	-	-	22.68	25.00	2.32	85.56	62.31
10/12/09	-	-	-	-	-	-	-	-	22.92	25.23	2.31	85.56	62.07
05/04/10	-	-	-	-	-	-	-	-	21.02	22.60	1.58	85.56	64.15
10/06/10	-	-	-	-	-	-	-	-	21.30	22.04	0.74	85.56	64.08
03/30/11	-	-	-	-	-	-	-	-	20.63	20.65	0.02	88.00	67.37
09/28/11	-	-	-	-	-	-	-	-	NP	21.02	0.00	88.00	66.98
04/03/12	-	-	-	-	-	-	-	-	NP	21.38	0.00	88.00	66.62
09/26/12	-	-	-	-	-	-	-	-	21.33	22.55	1.22	88.00	66.37
03/20/13	-	-	-	-	-	-	-	-	21.50	23.90	2.40	88.00	65.91
09/25/13	-	-	-	-	-	-	-	-	21.90	24.02	2.12	88.00	65.56
04/02/14	-	-	-	-	-	-	-	-	22.22	22.83	0.61	88.00	65.53
WELL # STF-27 Area = STF S of Foster													
11/30/94	-	-	-	-	-	-	-	-	NP	20.94	0.00	86.20	65.26
11/10/95	-	-	-	-	-	-	-	-	20.10	20.23	0.13	86.20	66.07
04/11/96	-	-	-	-	-	-	-	-	20.07	20.14	0.07	86.20	66.11
04/28/97	-	-	-	-	-	-	-	-	NP	19.69	0.00	86.20	66.51
04/20/98	-	-	-	-	-	-	-	-	NP	17.13	0.00	86.20	69.07
04/27/99	-	-	-	-	-	-	-	-	NP	19.24	0.00	86.20	66.96
04/10/00	-	-	-	-	-	-	-	-	NP	20.05	0.00	86.20	66.15
04/02/01	-	-	-	-	-	-	-	-	NP	19.01	0.00	86.20	67.19
04/01/02	-	-	-	-	-	-	-	-	NP	20.41	0.00	86.20	65.79
11/01/02	-	-	-	-	-	-	-	-	20.95	20.98	0.03	86.20	-
04/01/03	-	-	-	-	-	-	-	-	NP	19.93	0.00	86.20	66.27
11/01/03	-	-	-	-	-	-	-	-	NP	19.36	0.00	86.20	66.84
03/30/04	-	-	-	-	-	-	-	-	NP	21.09	0.00	86.20	65.11
11/22/04	-	-	-	-	-	-	-	-	NP	21.50	0.00	(1)	-
03/29/05	-	-	-	-	-	-	-	-	NP	19.07	0.00	(1)	-
12/06/05	-	-	-	-	-	-	-	-	20.09	20.10	0.01	(1)	-
04/11/06	-	-	-	-	-	-	-	-	NP	20.75	0.00	88.98	68.23
12/05/06	-	-	-	-	-	-	-	-	21.15	21.20	0.05	88.98	67.82
05/01/07	-	-	-	-	-	-	-	-	NP	21.56	0.00	88.98	67.42
09/27/07	-	-	-	-	-	-	-	-	NP	21.60	0.00	88.98	67.38
03/27/08	-	-	-	-	-	-	-	-	NP	21.84	0.00	88.98	67.14

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
09/22/08	-	-	-	-	-	-	-	-	NP	22.20	0.00	88.98	66.78
03/26/09	-	-	-	-	-	-	-	-	NP	22.19	0.00	88.98	66.79
10/12/09	-	-	-	-	-	-	-	-	NP	22.46	0.00	88.98	66.52
05/04/10	-	-	-	-	-	-	-	-	20.29	22.70	2.41	88.98	68.10
10/06/10	-	-	-	-	-	-	-	-	20.50	23.14	2.64	88.98	67.83
03/30/11	-	-	-	-	-	-	-	-	20.10	20.29	0.19	87.55	67.40
09/28/11	-	-	-	-	-	-	-	-	20.45	20.65	0.20	87.55	67.05
04/03/12	-	-	-	-	-	-	-	-	20.88	21.20	0.32	87.55	66.59
09/26/12	-	-	-	-	-	-	-	-	21.20	21.52	0.32	87.55	66.27
03/20/13	-	-	-	-	-	-	-	-	NP	21.70	0.00	87.55	65.85
09/25/13	-	-	-	-	-	-	-	-	21.71	21.81	0.10	87.55	65.82
04/02/14	-	-	-	-	-	-	-	-	NP	21.77	0.00	87.55	65.78
WELL # STF-28 Area = STF S of Foster													
11/30/94	-	-	-	-	-	-	-	-	20.44	20.40	0.04	86.69	66.24
11/10/95	-	-	-	-	-	-	-	-	20.79	20.83	0.04	86.69	65.89
04/11/96	-	-	-	-	-	-	-	-	20.33	20.47	0.14	86.69	66.33
04/28/97	-	-	-	-	-	-	-	-	18.92	20.21	0.29	86.69	68.70
04/20/98	-	-	-	-	-	-	-	-	17.30	17.63	0.33	86.69	69.31
04/27/99	-	-	-	-	-	-	-	-	18.40	19.73	0.33	86.69	67.21
04/10/00	-	-	-	-	-	-	-	-	20.30	20.36	0.06	86.69	66.36
04/02/01	-	-	-	-	-	-	-	-	19.20	19.33	0.13	86.69	67.46
04/01/02	-	-	-	-	-	-	-	-	NP	20.64	0.00	86.69	-
11/01/02	-	-	-	-	-	-	-	-	21.24	21.26	0.02	86.69	-
04/01/03	-	-	-	-	-	-	-	-	NP	20.23	0.00	86.69	66.46
11/01/03	-	-	-	-	-	-	-	-	19.89	19.33	-0.56	86.69	-
03/30/04	-	-	-	-	-	-	-	-	NP	21.45	0.00	86.69	65.24
11/22/04	-	-	-	-	-	-	-	-	NP	21.63	0.00	(1)	-
03/29/05	-	-	-	-	-	-	-	-	NP	18.42	0.00	(1)	-
12/06/05	-	-	-	-	-	-	-	-	20.62	20.63	0.01	(1)	-
04/11/06	-	-	-	-	-	-	-	-	NP	21.27	0.00	(1)	-
12/05/06	-	-	-	-	-	-	-	-	NP	21.69	0.00	(1)	-
05/01/07	-	-	-	-	-	-	-	-	NP	22.14	0.00	86.69	64.55
09/27/07	-	-	-	-	-	-	-	-	NP	22.00	0.00	86.69	64.69
03/27/08	-	-	-	-	-	-	-	-	22.23	22.95	0.72	86.69	64.28
09/22/08	-	-	-	-	-	-	-	-	22.60	23.21	0.61	86.69	63.94
03/26/09	-	-	-	-	-	-	-	-	22.25	25.12	2.87	86.69	63.74
10/12/09	-	-	-	-	-	-	-	-	22.53	25.79	3.26	86.69	63.36
05/04/10	-	-	-	-	-	-	-	-	20.25	22.30	2.05	86.69	65.94
10/06/10	-	-	-	-	-	-	-	-	NO ACCESS	-	-	-	-
03/30/11	-	-	-	-	-	-	-	-	NP	19.95	0.00	87.57	67.62
09/26/11	-	-	-	-	-	-	-	-	NP	20.38	0.00	87.57	67.19
04/03/12	-	-	-	-	-	-	-	-	20.60	21.92	1.32	87.57	66.65
09/26/12	-	-	-	-	-	-	-	-	NO ACCESS	-	-	87.57	-
03/20/13	-	-	-	-	-	-	-	-	20.90	23.90	3.00	87.57	65.94
09/25/13	-	-	-	-	-	-	-	-	21.23	25.75	4.52	87.57	65.23
04/02/14	-	-	-	-	-	-	-	-	21.20	22.08	0.88	87.57	66.15
WELL # STF-29 Area = STF S of Foster													
11/30/94	-	-	-	-	-	-	-	-	NP	22.71	0.00	86.42	63.71
11/10/95	-	-	-	-	-	-	-	-	NP	21.80	0.00	86.42	64.62
04/11/96	-	-	-	-	-	-	-	-	19.97	20.03	0.06	86.42	66.44
04/28/97	-	-	-	-	-	-	-	-	19.54	20.35	0.81	86.42	66.88
04/20/98	-	-	-	-	-	-	-	-	16.24	17.03	0.79	86.42	69.99
04/27/99	-	-	-	-	-	-	-	-	19.01	20.47	1.46	86.42	67.05
04/10/00	-	-	-	-	-	-	-	-	20.16	20.30	0.14	86.42	66.23
04/02/01	-	-	-	-	-	-	-	-	18.10	18.21	0.11	86.42	68.29
04/01/02	-	-	-	-	-	-	-	-	20.51	20.54	0.03	86.24	65.72
11/01/02	-	-	-	-	-	-	-	-	21.20	21.24	0.04	86.24	65.03
04/01/03	-	-	-	-	-	-	-	-	19.63	20.04	0.41	86.24	66.61
11/01/03	-	-	-	-	-	-	-	-	19.62	20.63	1.01	86.24	66.37
03/30/04	-	-	-	-	-	-	-	-	20.95	21.94	0.99	86.24	65.05
11/22/04	-	-	-	-	-	-	-	-	21.50	21.51	0.01	(1)	-
03/29/05	-	-	-	-	-	-	-	-	NP	18.80	0.00	(1)	-
12/20/05	-	-	-	-	-	-	-	-	20.57	20.63	0.06	(1)	-
04/11/06	-	-	-	-	-	-	-	-	21.10	21.17	0.07	(1)	-
12/05/06	-	-	-	-	-	-	-	-	21.55	21.63	0.08	(1)	-
05/01/07	-	-	-	-	-	-	-	-	22.02	22.05	0.03	86.24	64.21
09/27/07	-	-	-	-	-	-	-	-	22.05	22.26	0.21	86.24	64.14
03/27/08	-	-	-	-	-	-	-	-	22.34	22.45	0.11	86.24	63.87
09/22/08	-	-	-	-	-	-	-	-	22.54	22.61	0.07	86.24	63.68
03/26/09	-	-	-	-	-	-	-	-	22.53	22.56	0.03	86.24	63.70
10/12/09	-	-	-	-	-	-	-	-	22.84	22.87	0.03	86.24	63.39
05/04/10	-	-	-	-	-	-	-	-	20.71	20.80	0.09	86.24	65.51
10/06/10	-	-	-	-	-	-	-	-	20.98	21.02	0.04	86.24	65.25
03/30/11	-	-	-	-	-	-	-	-	NP	20.05	0.00	87.60	67.55
09/28/11	-	-	-	-	-	-	-	-	NP	20.76	0.00	87.60	66.84
04/03/12	-	-	-	-	-	-	-	-	NP	21.15	0.00	87.60	66.45
09/26/12	-	-	-	-	-	-	-	-	NP	21.53	0.00	87.60	66.07
03/20/13	-	-	-	-	-	-	-	-	NP	21.45	0.00	87.60	66.15
09/25/13	-	-	-	-	-	-	-	-	21.93	21.95	0.02	87.60	65.67
04/02/14	-	-	-	-	-	-	-	-	NP	21.81	0.00	87.60	65.79

Table 2 - Summary of Historical Gauging and Chemical Data

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DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
WELL # STF-30 Area = STF S of Foster													
11/30/94	-	-	-	-	-	-	-	-	22.06	27.50	5.44	86.59	63.20
11/10/95	-	-	-	-	-	-	-	-	19.78	20.69	0.91	86.59	66.59
04/11/96	-	-	-	-	-	-	-	-	19.88	20.13	0.25	86.59	66.65
04/28/97	-	-	-	-	-	-	-	-	19.54	19.65	0.11	86.59	67.02
04/20/98	-	-	-	-	-	-	-	-	16.67	17.62	0.95	86.59	69.49
04/27/99	-	-	-	-	-	-	-	-	18.84	19.04	0.20	86.59	67.70
04/10/00	-	-	-	-	-	-	-	-	NP	20.09	0.00	86.59	66.50
04/02/01	-	-	-	-	-	-	-	-	18.74	18.75	0.01	86.59	67.85
04/01/02	-	-	-	-	-	-	-	-		20.25	0.00	86.59	-
11/01/02	-	-	-	-	-	-	-	-	20.91	20.97	0.06	86.59	65.67
04/01/03	-	-	-	-	-	-	-	-		20.01	0.00	86.59	66.58
11/01/03	-	-	-	-	-	-	-	-	19.37	20.22	0.85	86.59	67.01
03/30/04	-	-	-	-	-	-	-	-	20.80	22.12	1.32	86.59	65.47
11/22/04	-	-	-	-	-	-	-	-	21.20	21.45	0.25	(1)	-
03/29/05	-	-	-	-	-	-	-	-	18.85	20.02	1.17	(1)	-
12/20/05	-	-	-	-	-	-	-	-	20.18	20.85	0.67	(1)	-
04/11/06	-	-	-	-	-	-	-	-	20.69	21.33	0.64	(1)	-
12/05/06	-	-	-	-	-	-	-	-	21.19	21.95	0.76	(1)	-
05/01/07	-	-	-	-	-	-	-	-	21.76	21.86	0.10	86.59	64.81
09/27/07	-	-	-	-	-	-	-	-	21.83	22.16	0.33	86.59	64.68
03/27/08	-	-	-	-	-	-	-	-	21.93	22.40	0.47	86.59	64.54
09/22/08	-	-	-	-	-	-	-	-	22.31	23.00	0.69	86.59	64.11
03/26/09	-	-	-	-	-	-	-	-	22.25	22.93	0.68	86.59	64.17
10/12/09	-	-	-	-	-	-	-	-	22.74	23.73	0.99	86.59	63.61
05/04/10	-	-	-	-	-	-	-	-	20.62	21.64	1.02	86.59	65.72
10/06/10	-	-	-	-	-	-	-	-	20.84	22.31	1.47	86.59	65.39
03/30/11	-	-	-	-	-	-	-	-	NP	19.91	0.00	87.70	67.79
09/28/11	-	-	-	-	-	-	-	-	NP	20.38	0.00	87.70	67.32
04/03/12	-	-	-	-	-	-	-	-	NP	21.05	0.00	87.70	66.65
09/26/12	-	-	-	-	-	-	-	-	21.50	22.08	0.58	87.70	66.06
03/20/13	-	-	-	-	-	-	-	-	NP	21.45	0.00	87.70	66.25
09/25/13	-	-	-	-	-	-	-	-	22.08	22.69	0.61	87.70	65.47
04/02/14	-	-	-	-	-	-	-	-	22.04	22.18	0.14	87.70	65.63
WELL # STF-31 Area = STF S of Foster													
11/30/94	-	-	-	-	-	-	-	-	21.83	25.38	3.55	86.33	63.63
11/10/95	-	-	-	-	-	-	-	-	19.40	21.00	1.60	86.33	66.54
04/11/96	-	-	-	-	-	-	-	-	19.25	20.36	1.11	86.33	66.61
04/28/97	-	-	-	-	-	-	-	-	18.98	19.92	0.94	86.33	67.12
04/20/98	-	-	-	-	-	-	-	-	16.20	18.58	2.38	86.33	69.55
04/27/99	-	-	-	-	-	-	-	-	18.13	20.62	2.49	86.33	67.59
04/10/00	-	-	-	-	-	-	-	-	19.42	20.97	1.55	86.33	66.53
04/02/01	-	-	-	-	-	-	-	-	18.45	19.10	0.65	86.33	67.72
04/01/02	-	-	-	-	-	-	-	-	21.04	21.27	0.23	86.23	65.13
11/01/02	-	-	-	-	-	-	-	-	NP	23.90	0.00	86.23	62.33
04/01/03	-	-	-	-	-	-	-	-	NP	21.81	0.00	86.23	64.42
11/01/03	-	-	-	-	-	-	-	-	18.89	21.34	2.85	86.23	66.89
03/30/04	-	-	-	-	-	-	-	-	20.36	23.05	2.69	86.23	65.21
11/22/04	-	-	-	-	-	-	-	-	20.69	21.70	1.01	(1)	-
03/29/05	-	-	-	-	-	-	-	-	17.94	22.80	4.86	(1)	-
12/20/05	-	-	-	-	-	-	-	-	20.00	20.10	0.10	(1)	-
04/11/06	-	-	-	-	-	-	-	-	20.55	20.68	0.13	(1)	-
12/05/06	-	-	-	-	-	-	-	-	NP	21.02	0.00	(1)	-
05/01/07	-	-	-	-	-	-	-	-	21.40	22.22	0.82	86.23	64.63
09/25/07	-	-	-	-	-	-	-	-	21.48	23.76	2.28	86.23	64.19
03/27/08	-	-	-	-	-	-	-	-	21.74	22.53	0.79	86.23	64.30
09/22/08	-	-	-	-	-	-	-	-	22.20	22.28	0.08	86.23	64.01
03/26/09	-	-	-	-	-	-	-	-	18.24	21.68	3.44	86.23	67.15
10/12/09	-	-	-	-	-	-	-	-	22.35	23.50	1.15	86.23	63.60
05/04/10	-	-	-	-	-	-	-	-	18.38	21.10	2.72	86.23	67.18
10/06/10	-	-	-	-	-	-	-	-	18.49	21.14	2.65	86.23	67.09
03/30/11	-	-	-	-	-	-	-	-	18.63	20.88	2.25	87.73	66.55
09/28/11	-	-	-	-	-	-	-	-	18.42	20.11	1.69	87.73	66.90
04/03/12	-	-	-	-	-	-	-	-	18.59	18.72	0.13	87.73	69.11
09/27/12	-	-	-	-	-	-	-	-	21.00	21.02	0.02	87.73	66.73
03/22/13	-	-	-	-	-	-	-	-	20.90	20.98	0.08	87.73	66.81
09/25/13	-	-	-	-	-	-	-	-	21.05	23.81	2.76	87.73	66.00
04/02/14	-	-	-	-	-	-	-	-	20.91	24.80	3.89	87.73	65.92
WELL # STF-32 Area = STF S of Foster													
11/30/94	-	-	-	-	-	-	-	-	21.75	24.63	2.88	86.45	63.99
11/10/95	-	-	-	-	-	-	-	-	19.50	20.08	0.58	86.45	66.81
04/11/96	-	-	-	-	-	-	-	-	19.40	19.82	0.42	86.45	66.95
04/28/97	-	-	-	-	-	-	-	-	19.15	19.38	0.23	86.45	67.24
04/20/98	-	-	-	-	-	-	-	-	16.50	17.77	1.27	86.45	69.64
04/27/99	-	-	-	-	-	-	-	-	18.48	19.15	0.67	86.45	67.61
04/10/00	-	-	-	-	-	-	-	-	19.55	19.66	0.11	86.45	66.87
04/02/01	-	-	-	-	-	-	-	-	18.41	18.43	0.02	86.45	68.04
04/01/02	-	-	-	-	-	-	-	-	19.89	19.91	0.02	86.45	66.56
11/01/02	-	-	-	-	-	-	-	-	20.49	20.59	0.10	86.45	65.94
04/01/03	-	-	-	-	-	-	-	-	19.47	19.77	0.30	86.45	66.91
11/01/03	-	-	-	-	-	-	-	-	19.10	19.46	0.38	86.45	67.28
03/30/04	-	-	-	-	-	-	-	-	20.91	21.30	0.39	86.45	65.44
11/22/04	-	-	-	-	-	-	-	-	NP	20.89	0.00	(1)	-

Table 2 - Summary of Historical Gauging and Chemical Data

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DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
03/28/05	-	-	-	-	-	-	-	-	NP	18.78	0.00	(1)	-
12/06/05	-	-	-	-	-	-	-	-	19.96	19.97	0.01	(1)	-
04/11/06	-	-	-	-	-	-	-	-	NP	20.48	0.00	89.35	68.87
12/05/06	-	-	-	-	-	-	-	-	21.17	21.15	-0.02	89.35	68.18
05/01/07	-	-	-	-	-	-	-	-	NP	21.62	0.00	89.35	67.73
09/25/07	-	-	-	-	-	-	-	-	NP	21.88	0.00	89.35	67.47
03/27/08	-	-	-	-	-	-	-	-	NP	21.91	0.00	89.35	67.44
09/22/08	-	-	-	-	-	-	-	-	NP	22.39	0.00	89.35	66.96
03/26/09	-	-	-	-	-	-	-	-	22.48	22.50	0.02	89.35	66.87
10/12/09	-	-	-	-	-	-	-	-	22.42	24.68	2.26	89.35	66.38
05/04/10	-	-	-	-	-	-	-	-	20.93	23.50	2.57	89.35	67.79
10/06/10	-	-	-	-	-	-	-	-	21.14	23.52	2.38	89.35	67.63
03/30/11	-	-	-	-	-	-	-	-	NP	20.28	0.00	87.53	67.27
09/26/11	-	-	-	-	-	-	-	-	NP	20.08	0.00	87.53	67.45
04/03/12	-	-	-	-	-	-	-	-	NP	20.14	0.00	87.53	67.39
09/27/12	-	-	-	-	-	-	-	-	NP	21.60	0.00	87.53	65.93
03/22/13	-	-	-	-	-	-	-	-	NP	21.37	0.00	87.53	66.16
09/25/13	-	-	-	-	-	-	-	-	19.65	21.92	2.27	87.53	67.92
04/02/14	-	-	-	-	-	-	-	-	NP	21.74	0.00	87.53	65.79
WELL # STF-33	Area = STF S of Foster												
11/30/94	-	-	-	-	-	-	-	-	NP	22.23	0.00	86.30	64.07
11/10/95	-	-	-	-	-	-	-	-	19.00	22.42	3.42	86.30	66.48
04/11/96	-	-	-	-	-	-	-	-	19.23	19.89	0.66	86.30	66.91
04/28/97	-	-	-	-	-	-	-	-	18.98	19.29	0.31	86.30	67.24
04/20/98	-	-	-	-	-	-	-	-	16.00	18.25	2.25	86.30	69.75
04/27/99	-	-	-	-	-	-	-	-	18.04	20.07	2.03	86.30	67.78
04/10/00	-	-	-	-	-	-	-	-	NP	20.15	0.00	86.30	66.15
04/02/01	-	-	-	-	-	-	-	-	18.47	18.54	0.07	86.30	67.81
04/01/02	-	-	-	-	-	-	-	-	19.84	19.80	0.18	86.30	66.62
11/01/02	-	-	-	-	-	-	-	-	20.20	20.27	0.07	86.30	66.08
04/01/03	-	-	-	-	-	-	-	-	NP	19.15	0.00	86.30	67.15
11/01/03	-	-	-	-	-	-	-	-	18.77	19.75	0.98	86.30	67.29
03/30/04	-	-	-	-	-	-	-	-	20.33	22.07	1.74	86.30	65.54
11/22/04	-	-	-	-	-	-	-	-	20.65	20.82	0.17	(1)	-
03/29/05	-	-	-	-	-	-	-	-	17.83	24.58	6.95	(1)	-
12/20/05	-	-	-	-	-	-	-	-	19.87	20.03	0.16	(1)	-
04/11/06	-	-	-	-	-	-	-	-	20.28	20.67	0.39	(1)	-
12/05/06	-	-	-	-	-	-	-	-	20.92	21.09	0.17	(1)	-
05/01/07	-	-	-	-	-	-	-	-	21.36	21.42	0.06	86.30	64.93
09/25/07	-	-	-	-	-	-	-	-	21.65	22.06	0.41	86.30	64.65
03/27/08	-	-	-	-	-	-	-	-	21.66	21.83	0.17	86.30	64.60
09/22/08	-	-	-	-	-	-	-	-	22.03	22.08	0.05	86.30	64.26
03/26/09	-	-	-	-	-	-	-	-	18.58	24.58	6.00	86.30	66.25
10/12/09	-	-	-	-	-	-	-	-	21.84	25.18	3.34	86.30	63.84
05/04/10	-	-	-	-	-	-	-	-	19.42	21.10	1.68	86.30	66.47
10/06/10	-	-	-	-	-	-	-	-	19.52	21.14	1.62	86.30	66.38
03/30/11	-	-	-	-	-	-	-	-	18.30	19.74	1.44	87.31	68.66
09/26/11	-	-	-	-	-	-	-	-	20.03	21.48	1.45	87.31	66.92
04/03/12	-	-	-	-	-	-	-	-	19.93	21.34	1.41	87.31	67.03
09/27/12	-	-	-	-	-	-	-	-	20.75	23.32	2.57	87.31	65.93
03/22/13	-	-	-	-	-	-	-	-	20.35	21.50	1.15	87.31	66.68
09/26/13	-	-	-	-	-	-	-	-	20.88	27.20	6.32	87.31	64.66
04/02/14	-	-	-	-	-	-	-	-	NP	21.73	0.00	87.31	65.58
WELL # STF-34	Area = STF S of Foster												
11/30/94	-	-	-	-	-	-	-	-	22.00	23.31	1.31	86.23	63.91
11/10/95	-	-	-	-	-	-	-	-	18.95	21.02	2.07	86.23	68.77
04/11/96	-	-	-	-	-	-	-	-	18.92	19.98	1.06	86.23	67.05
04/28/97	-	-	-	-	-	-	-	-	18.79	19.13	0.34	86.23	67.36
04/20/98	-	-	-	-	-	-	-	-	16.91	19.90	3.99	86.23	69.34
04/27/99	-	-	-	-	-	-	-	-	18.12	18.52	0.40	86.23	68.01
04/10/00	-	-	-	-	-	-	-	-	19.00	19.29	0.29	86.23	67.16
04/02/01	-	-	-	-	-	-	-	-	17.98	18.19	0.21	86.23	68.20
04/01/02	-	-	-	-	-	-	-	-	19.45	19.94	0.49	86.23	66.66
11/01/02	-	-	-	-	-	-	-	-	19.91	20.16	0.25	86.23	66.26
04/01/03	-	-	-	-	-	-	-	-	18.74	19.36	0.62	86.23	67.34
11/01/03	-	-	-	-	-	-	-	-	18.62	15.30	-3.32	86.23	68.42
03/30/04	-	-	-	-	-	-	-	-	20.25	21.70	1.45	86.23	65.62
11/22/04	-	-	-	-	-	-	-	-	20.60	20.67	0.07	(1)	-
03/29/05	-	-	-	-	-	-	-	-	18.40	19.77	1.37	(1)	-
12/20/05	-	-	-	-	-	-	-	-	19.76	19.83	0.07	(1)	-
04/11/06	-	-	-	-	-	-	-	-	20.16	20.26	0.10	(1)	-
12/05/06	-	-	-	-	-	-	-	-	20.16	20.26	0.10	(1)	-
05/01/07	-	-	-	-	-	-	-	-	NP	21.52	0.00	86.23	64.71
09/25/07	-	-	-	-	-	-	-	-	21.58	21.98	0.40	86.23	64.65
03/27/08	-	-	-	-	-	-	-	-	21.58	21.73	0.15	86.23	64.61
09/22/08	-	-	-	-	-	-	-	-	21.95	21.98	0.03	86.23	64.27
03/26/09	-	-	-	-	-	-	-	-	21.60	24.35	2.85	86.23	64.03
10/12/09	-	-	-	-	-	-	-	-	21.70	25.20	3.50	86.23	63.67
05/04/10	-	-	-	-	-	-	-	-	19.74	22.05	2.31	86.23	65.92
10/06/10	-	-	-	-	-	-	-	-	19.80	22.04	2.24	86.23	65.88
03/30/11	-	-	-	-	-	-	-	-	19.02	20.88	1.86	87.21	67.73
09/26/11	-	-	-	-	-	-	-	-	19.05	21.73	2.68	87.21	67.50
04/03/12	-	-	-	-	-	-	-	-	18.89	21.55	2.66	87.21	67.67

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
09/27/12	-	-	-	-	-	-	-	-	20.23	22.80	2.57	87.21	66.35
03/22/13	-	-	-	-	-	-	-	-	NP	20.20	0.00	87.21	67.01
09/25/13	-	-	-	-	-	-	-	-	21.58	21.81	0.26	87.21	65.59
04/02/14	-	-	-	-	-	-	-	-	21.15	21.82	0.67	87.21	65.90
WELL # STF-35 Area = STF S of Foster													
11/30/94	-	-	-	-	-	-	-	-	21.10	21.65	0.55	86.20	64.97
11/10/95	-	-	-	-	-	-	-	-	NP	19.25	0.00	86.20	66.95
04/11/96	-	-	-	-	-	-	-	-	18.80	19.18	0.38	86.20	67.31
04/28/97	-	-	-	-	-	-	-	-	18.58	19.38	0.82	86.20	67.44
04/20/98	-	-	-	-	-	-	-	-	16.11	18.00	1.89	86.20	69.63
04/27/99	-	-	-	-	-	-	-	-	17.60	19.33	1.73	86.20	68.18
04/10/00	-	-	-	-	-	-	-	-	18.78	18.79	0.01	86.20	67.42
04/02/01	-	-	-	-	-	-	-	-	NP	17.80	0.00	86.20	68.40
04/01/02	-	-	-	-	-	-	-	-	-	19.32	0.00	86.20	66.88
11/01/02	-	-	-	-	-	-	-	-	19.66	19.72	0.04	86.20	66.51
04/01/03	-	-	-	-	-	-	-	-	-	18.60	-	86.20	67.60
11/01/03	-	-	-	-	-	-	-	-	18.03	18.66	0.63	86.20	68.02
03/30/04	-	-	-	-	-	-	-	-	20.36	20.55	0.19	86.20	65.79
11/22/04	-	-	-	-	-	-	-	-	NP	19.35	0.00	(1)	-
03/29/05	-	-	-	-	-	-	-	-	NP	18.88	0.00	(1)	-
12/20/05	-	-	-	-	-	-	-	-	20.02	20.04	0.02	(1)	-
04/11/06	-	-	-	-	-	-	-	-	NP	20.42	0.00	(1)	-
12/05/06	-	-	-	-	-	-	-	-	20.83	20.95	0.12	(1)	-
05/01/07	-	-	-	-	-	-	-	-	21.50	21.51	0.01	86.20	64.70
09/25/07	-	-	-	-	-	-	-	-	21.95	22.00	0.05	86.20	64.24
03/27/08	-	-	-	-	-	-	-	-	NP	21.89	0.00	86.20	64.31
09/22/08	-	-	-	-	-	-	-	-	21.98	23.85	1.87	86.20	63.81
03/26/09	-	-	-	-	-	-	-	-	21.47	24.45	2.98	86.20	64.00
10/12/09	-	-	-	-	-	-	-	-	22.33	23.85	1.52	86.20	63.50
05/04/10	-	-	-	-	-	-	-	-	19.80	20.40	0.60	86.20	66.40
10/06/10	-	-	-	-	-	-	-	-	19.95	21.79	1.84	86.20	65.80
03/30/11	-	-	-	-	-	-	-	-	NP	18.81	0.00	87.01	68.20
09/26/11	-	-	-	-	-	-	-	-	NP	19.67	0.00	87.01	67.34
04/03/12	-	-	-	-	-	-	-	-	19.79	21.38	1.59	87.01	66.83
09/27/12	-	-	-	-	-	-	-	-	NP	20.17	0.00	87.01	66.84
03/22/13	-	-	-	-	-	-	-	-	20.27	20.45	0.18	87.01	66.70
09/25/13	-	-	-	-	-	-	-	-	20.78	21.10	0.32	87.01	66.15
04/02/14	-	-	-	-	-	-	-	-	20.70	21.27	0.57	87.01	66.17
WELL # STF-36 Area = STF S of Foster													
12/01/94	-	-	-	-	-	-	-	-	NP	21.58	0.00	86.28	64.72
11/10/95	-	-	-	-	-	-	-	-	19.12	19.20	0.08	86.28	67.14
04/11/96	-	-	-	-	-	-	-	-	18.74	18.77	0.03	86.28	67.53
04/28/97	-	-	-	-	-	-	-	-	NP	18.60	0.00	86.28	67.68
04/20/98	-	-	-	-	-	-	-	-	NP	16.55	0.00	86.28	69.73
04/27/99	-	-	-	-	-	-	-	-	NP	17.70	0.00	86.28	68.58
04/10/00	-	-	-	-	-	-	-	-	NP	18.62	0.00	86.28	67.66
04/02/01	-	-	-	-	-	-	-	-	NP	17.85	0.00	86.28	68.43
04/01/02	-	-	-	-	-	-	-	-	NP	19.25	0.00	86.28	67.03
11/01/02	-	-	-	-	-	-	-	-	NP	19.64	0.00	86.28	66.64
04/01/03	-	-	-	-	-	-	-	-	NP	18.60	0.00	86.20	67.60
11/01/03	-	-	-	-	-	-	-	-	NP	18.02	0.00	86.28	68.26
03/30/04	-	-	-	-	-	-	-	-	NP	20.75	0.00	86.28	65.53
11/22/04	-	-	-	-	-	-	-	-	NP	20.41	0.00	(1)	-
03/29/05	-	-	-	-	-	-	-	-	NP	18.80	0.00	(1)	-
12/06/05	-	-	-	-	-	-	-	-		19.65	film	(1)	-
04/11/06	-	-	-	-	-	-	-	-	NP	20.19	0.00	(1)	-
12/05/06	-	-	-	-	-	-	-	-	20.82	20.95	0.13	(1)	-
05/01/07	-	-	-	-	-	-	-	-	21.23	21.26	0.03	86.28	65.04
09/25/07	-	-	-	-	-	-	-	-	21.64	21.69	0.05	86.28	64.63
03/27/08	-	-	-	-	-	-	-	-	21.73	21.82	0.09	86.28	64.53
09/22/08	-	-	-	-	-	-	-	-	21.84	23.10	1.26	86.28	64.13
03/26/09	-	-	-	-	-	-	-	-	21.68	23.95	2.27	86.28	64.04
10/12/09	-	-	-	-	-	-	-	-	22.18	23.38	1.20	86.28	63.81
05/04/10	-	-	-	-	-	-	-	-	19.70	21.30	1.60	86.28	66.19
10/06/10	-	-	-	-	-	-	-	-	20.02	21.20	1.18	86.28	65.97
03/30/11	-	-	-	-	-	-	-	-	NP	19.03	0.00	86.77	67.74
09/26/11	-	-	-	-	-	-	-	-	NP	19.41	0.00	86.77	67.36
04/03/12	-	-	-	-	-	-	-	-	NP	19.36	0.00	86.77	67.41
09/27/12	-	-	-	-	-	-	-	-	NP	20.21	0.00	86.77	66.56
03/22/13	-	-	-	-	-	-	-	-	NP	20.10	0.00	86.77	66.67
09/25/13	-	-	-	-	-	-	-	-	NP	20.65	0.00	86.77	66.12
04/02/14	-	-	-	-	-	-	-	-	19.96	25.43	5.47	86.77	65.47
WELL # STF-37 Area = STF S of Foster													
12/01/94	-	-	-	-	-	-	-	-	NP	21.40	0.00	85.75	64.35
11/10/95	-	-	-	-	-	-	-	-	18.30	19.65	1.35	85.75	67.12
04/11/96	-	-	-	-	-	-	-	-	18.08	18.74	0.66	85.75	67.51
04/28/97	-	-	-	-	-	-	-	-	17.98	18.06	0.08	85.75	67.75
04/20/98	-	-	-	-	-	-	-	-	15.55	15.75	0.20	85.75	70.15
04/27/99	-	-	-	-	-	-	-	-	NP	16.88	0.00	85.75	68.87
04/10/00	-	-	-	-	-	-	-	-	NP	17.76	0.00	85.75	67.99
04/02/01	-	-	-	-	-	-	-	-	16.78	16.79	0.01	85.75	68.97

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Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
04/01/02	-	-	-	-	-	-	-	-		18.68	0.00	85.75	67.07
11/01/02	-	-	-	-	-	-	-	-	18.90	19.50	0.60	85.75	66.70
04/01/03	-	-	-	-	-	-	-	-	17.91	18.14	0.23	85.75	67.78
11/01/03	-	-	-	-	-	-	-	-	17.81	17.97	0.16	85.75	67.90
03/30/04	-	-	-	-	-	-	-	-	19.84	19.89	0.05	85.75	65.90
11/22/04	-	-	-	-	-	-	-	-	NP	20.18	0.00	(1)	-
03/29/05	-	-	-	-	-	-	-	-	18.62	18.67	0.05	(1)	-
12/06/05	-	-	-	-	-	-	-	-		19.48	film	(1)	-
04/11/06	-	-	-	-	-	-	-	-	NP	19.97	0.00	(1)	-
12/05/06	-	-	-	-	-	-	-	-	20.60	20.65	0.05	(1)	-
05/01/07	-	-	-	-	-	-	-	-	21.02	21.08	0.06	85.75	64.72
09/25/07	-	-	-	-	-	-	-	-	21.44	21.65	0.21	85.75	64.26
03/27/08	-	-	-	-	-	-	-	-	21.33	22.59	1.26	85.75	64.11
09/22/08	-	-	-	-	-	-	-	-	21.70	22.44	0.74	85.75	63.87
03/26/09	-	-	-	-	-	-	-	-	21.75	22.52	0.77	85.75	63.81
10/12/09	-	-	-	-	-	-	-	-	22.12	22.49	0.37	85.75	63.64
05/04/10	-	-	-	-	-	-	-	-	19.18	19.65	0.47	85.75	66.45
10/08/10	-	-	-	-	-	-	-	-	19.65	19.94	0.29	85.75	66.03
03/30/11	-	-	-	-	-	-	-	-	NP	18.62	0.00	86.64	68.02
09/28/11	-	-	-	-	-	-	-	-	NP	19.16	0.00	86.64	67.48
04/03/12	-	-	-	-	-	-	-	-	NP	19.20	0.00	86.64	67.44
09/27/12	-	-	-	-	-	-	-	-	NP	20.04	0.00	86.64	66.60
03/22/13	-	-	-	-	-	-	-	-	NP	20.90	0.00	86.64	65.74
09/25/13	-	-	-	-	-	-	-	-	19.98	22.01	2.03	88.64	66.16
04/02/14	-	-	-	-	-	-	-	-	19.78	22.53	2.77	88.64	66.20
WELL # STF-38	Area = STF S of Foster												
12/01/94	-	-	-	-	-	-	-	-	NP	19.96	0.00	85.20	65.22
11/10/95	-	-	-	-	-	-	-	-	17.85	18.40	0.55	85.20	67.22
04/11/96	-	-	-	-	-	-	-	-	17.56	17.86	0.30	85.20	67.57
04/29/97	-	-	-	-	-	-	-	-	17.42	17.92	0.50	85.20	67.86
04/20/98	-	-	-	-	-	-	-	-	15.43	17.57	2.14	85.20	69.25
04/27/99	-	-	-	-	-	-	-	-	16.25	17.59	1.34	85.20	68.62
04/10/00	-	-	-	-	-	-	-	-	17.40	17.60	0.20	85.20	67.75
04/02/01	-	-	-	-	-	-	-	-	16.79	17.46	0.67	85.20	68.25
04/01/02	-	-	-	-	-	-	-	-	-	19.98	0.00	85.20	65.22
11/01/02	-	-	-	-	-	-	-	-	18.38	18.73	0.35	85.20	66.73
04/01/03	-	-	-	-	-	-	-	-	-	17.56	0.00	85.20	67.64
11/01/03	-	-	-	-	-	-	-	-	-	-	-	85.20	-
03/30/04	-	-	-	-	-	-	-	-		13.46	0.00	(1)	-
11/22/04	-	-	-	-	-	-	-	-	NP	17.91	0.00	(1)	-
03/29/05	-	-	-	-	-	-	-	-	NP	16.77	0.00	(1)	-
12/20/05	-	-	-	-	-	-	-	-	17.46	17.50	0.04	(1)	-
04/11/06	-	-	-	-	-	-	-	-	NP	17.88	0.00	(1)	-
12/05/06	-	-	-	-	-	-	-	-	NP	18.53	0.00	(1)	-
05/01/07	-	-	-	-	-	-	-	-	NP	19.00	0.00	85.20	66.20
09/25/07	-	-	-	-	-	-	-	-	NP	19.30	0.00	85.20	65.90
03/27/08	-	-	-	-	-	-	-	-	NP	19.55	0.00	85.20	65.65
09/22/08	-	-	-	-	-	-	-	-	21.79	21.95	0.16	85.20	63.37
03/26/09	-	-	-	-	-	-	-	-	19.64	20.34	0.50	85.20	65.24
10/12/09	-	-	-	-	-	-	-	-	19.80	21.88	2.08	85.20	64.69
05/04/10	-	-	-	-	-	-	-	-	19.45	20.95	1.50	85.20	65.38
10/08/10	-	-	-	-	-	-	-	-	19.50	20.76	1.26	85.20	65.39
03/30/11	-	-	-	-	-	-	-	-	NP	19.05	0.00	86.63	67.58
09/28/11	-	-	-	-	-	-	-	-	NP	19.20	0.00	86.63	67.43
04/03/12	-	-	-	-	-	-	-	-	NP	19.33	0.00	86.63	67.30
09/27/12	-	-	-	-	-	-	-	-	19.97	21.72	1.75	86.63	66.23
03/22/13	-	-	-	-	-	-	-	-	19.72	20.62	0.90	86.63	66.69
09/25/13	-	-	-	-	-	-	-	-	20.27	20.61	0.34	86.63	66.28
04/02/14	-	-	-	-	-	-	-	-	20.37	20.40	0.03	86.63	66.26
WELL # STF-39	Area = STF S of Foster												
12/01/94	-	-	-	-	-	-	-	-	NP	19.88	0.00	84.95	65.07
11/10/95	-	-	-	-	-	-	-	-	17.53	18.67	1.14	84.95	67.14
04/11/96	-	-	-	-	-	-	-	-	17.15	17.70	0.55	84.95	67.67
04/29/97	-	-	-	-	-	-	-	-	16.92	18.46	1.54	84.95	67.65
04/20/98	-	-	-	-	-	-	-	-	14.98	17.07	2.09	84.95	69.46
04/27/99	-	-	-	-	-	-	-	-	15.64	18.05	2.41	84.95	68.72
04/10/00	-	-	-	-	-	-	-	-	16.89	17.96	1.07	84.95	67.80
04/02/01	-	-	-	-	-	-	-	-	16.59	17.06	0.47	84.95	68.24
04/01/02	-	-	-	-	-	-	-	-	17.65	17.65	0.00	84.95	67.30
11/01/02	-	-	-	-	-	-	-	-	18.16	18.46	0.30	84.95	66.72
04/01/03	-	-	-	-	-	-	-	-	16.54	18.77	2.23	84.95	67.86
11/01/03	-	-	-	-	-	-	-	-	16.72	17.55	0.83	84.95	68.03
03/30/04	-	-	-	-	-	-	-	-	20.38	21.32	0.94	84.95	64.34
11/22/04	-	-	-	-	-	-	-	-	19.07	19.21	0.14	(1)	-
03/29/05	-	-	-	-	-	-	-	-	17.95	18.13	0.18	(1)	-
12/20/05	-	-	-	-	-	-	-	-	19.69	19.74	0.05	(1)	-
04/11/06	-	-	-	-	-	-	-	-	19.05	19.07	0.02	88.57	69.52
12/05/06	-	-	-	-	-	-	-	-	19.79	19.86	0.07	88.57	68.76
05/01/07	-	-	-	-	-	-	-	-	22.33	22.35	0.02	88.57	66.24
09/25/07	-	-	-	-	-	-	-	-	20.82	20.92	0.10	88.57	67.73
03/27/08	-	-	-	-	-	-	-	-	NP	20.83	0.00	88.57	67.74
09/22/08	-	-	-	-	-	-	-	-	NP	21.12	0.00	88.57	67.45
03/26/09	-	-	-	-	-	-	-	-	NP	21.22	0.00	88.57	67.35

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
10/12/09	-	-	-	-	-	-	-	-	NP	21.50	0.00	88.57	67.07
05/04/10	-	-	-	-	-	-	-	-	NP	20.25	0.00	88.57	68.32
10/06/10	-	-	-	-	-	-	-	-	NP	20.33	0.00	88.57	68.24
03/30/11	-	-	-	-	-	-	-	-	NP	19.58	0.00	87.15	67.59
09/28/11	-	-	-	-	-	-	-	-	NP	20.17	0.00	87.15	66.98
04/03/12	-	-	-	-	-	-	-	-	NP	20.21	0.00	87.15	66.94
09/27/12	-	-	-	-	-	-	-	-	NP	20.57	0.00	87.15	66.58
03/22/13	-	-	-	-	-	-	-	-	NP	20.51	0.00	87.15	66.64
05/28/13	-	-	-	-	-	-	-	-	NP	20.91	0.00	87.15	66.24
04/02/14	-	-	-	-	-	-	-	-	NP	29.00	0.00	87.15	58.15
WELL # STF-40													
12/01/94	-	-	-	-	-	-	-	-	23.98	24.15	0.17	85.83	61.81
11/09/95	-	-	-	-	-	-	-	-	NP	21.04	0.00	85.83	64.79
04/10/96	-	-	-	-	-	-	-	-	21.00	25.45	4.45	85.83	63.74
05/01/97	-	-	-	-	-	-	-	-	21.10	21.86	0.76	85.83	64.54
04/21/98	-	-	-	-	-	-	-	-	18.95	21.96	3.01	85.83	66.14
04/26/99	-	-	-	-	-	-	-	-	19.94	23.84	3.90	85.83	64.93
04/10/00	-	-	-	-	-	-	-	-	20.81	21.94	1.13	85.83	64.74
04/03/01	-	-	-	-	-	-	-	-	NP	21.07	0.00	85.33	64.26
04/01/02	-	-	-	-	-	-	-	-	21.45	21.49	0.04	85.33	63.87
11/01/02	-	-	-	-	-	-	-	-	22.07	22.14	0.07	85.33	63.24
04/01/03	-	-	-	-	-	-	-	-		21.18	0.00	85.33	64.15
11/01/03	-	-	-	-	-	-	-	-	21.19	21.70	0.51	85.33	64.02
03/30/04	-	-	-	-	-	-	-	-	21.24	21.77	0.53	85.33	63.96
	WELL DESTROYED												
WELL # STF-41													
12/01/94	-	-	-	-	-	-	-	-	23.94	26.31	2.37	85.77	61.25
11/09/95	-	-	-	-	-	-	-	-	20.90	26.58	5.68	85.77	63.48
04/10/96	-	-	-	-	-	-	-	-	21.45	24.05	2.60	85.77	63.68
05/01/97	-	-	-	-	-	-	-	-	21.15	22.97	1.82	85.77	64.17
04/21/98	-	-	-	-	-	-	-	-	19.27	23.50	4.23	85.77	65.46
04/26/99	-	-	-	-	-	-	-	-	20.50	26.25	5.76	85.77	63.86
04/10/00	-	-	-	-	-	-	-	-	21.24	23.32	2.08	85.77	64.02
04/03/01	-	-	-	-	-	-	-	-	NP	21.25	0.00	85.77	64.52
04/01/02	-	-	-	-	-	-	-	-	21.76	21.88	0.12	85.77	63.98
11/01/02	-	-	-	-	-	-	-	-	22.23	22.44	0.21	85.77	63.49
04/01/03	-	-	-	-	-	-	-	-	21.32	21.90	0.58	85.77	64.31
11/01/03	-	-	-	-	-	-	-	-	21.18	23.05	1.87	85.77	64.13
03/30/04	-	-	-	-	-	-	-	-	20.98	23.88	2.90	85.77	64.08
	WELL DESTROYED												
WELL # STF-41A Area = STF S of Foster													
04/11/06	-	-	-	-	-	-	-	-	NP	25.24	0.00	92.61	67.37
12/04/06	-	-	-	-	-	-	-	-	NP	25.54	0.00	92.71	67.17
05/01/07	-	-	-	-	-	-	-	-	NP	25.80	0.00	92.71	66.91
09/25/07	-	-	-	-	-	-	-	-	NP	25.85	0.00	92.71	66.86
03/27/08	-	-	-	-	-	-	-	-	NP	26.21	0.00	92.71	66.50
09/22/08	-	-	-	-	-	-	-	-	DRY	at 28.67	-	92.71	-
03/26/09	-	-	-	-	-	-	-	-	NP	28.53	0.00	92.71	66.18
10/12/09	-	-	-	-	-	-	-	-	NP	28.52	0.00	92.71	66.19
05/04/10	-	-	-	-	-	-	-	-	NP	28.51	0.00	92.71	66.20
10/06/10	-	-	-	-	-	-	-	-	NP	28.80	0.00	92.71	65.91
03/30/11	-	-	-	-	-	-	-	-	NP	26.20	0.00	92.71	66.51
09/28/11	-	-	-	-	-	-	-	-	NP	26.12	0.00	92.71	66.59
04/03/12	-	-	-	-	-	-	-	-	NP	26.90	0.00	92.71	65.81
09/26/12	-	-	-	-	-	-	-	-	NP	26.40	0.00	92.71	66.31
03/20/13	-	-	-	-	-	-	-	-	NP	27.03	0.00	92.71	65.68
09/25/13	-	-	-	-	-	-	-	-	NP	26.88	0.00	92.71	65.83
04/02/14	-	-	-	-	-	-	-	-	NP	27.26	0.00	92.71	65.45
WELL # STF-42													
12/01/94	-	-	-	-	-	-	-	-	NP	24.17	0.00	85.97	61.80
11/09/95	-	-	-	-	-	-	-	-	NP	21.58	0.00	85.97	64.39
04/10/96	-	-	-	-	-	-	-	-	NP	21.95	0.00	85.97	64.02
11/06/96	-	-	-	-	-	-	-	-	NP	22.23	0.00	85.97	63.74
05/01/97	-	-	-	-	-	-	-	-	NP	21.54	0.00	85.97	64.43
04/21/98	-	-	-	-	-	-	-	-	NP	19.93	0.00	85.97	66.04
04/26/99	-	-	-	-	-	-	-	-	20.20	27.60	7.40	85.97	63.96
04/10/00	-	-	-	-	-	-	-	-	21.57	22.43	0.86	85.97	64.19
04/03/01	-	-	-	-	-	-	-	-	NP	21.44	0.00	85.97	64.53
04/01/02	-	-	-	-	-	-	-	-	21.91	21.95	0.04	85.97	64.05
11/01/02	-	-	-	-	-	-	-	-	NP	22.45	0.00	85.97	-
04/01/03	-	-	-	-	-	-	-	-	NP	21.60	0.00	85.97	-
11/01/03	-	-	-	-	-	-	-	-	21.11	23.57	2.46	85.97	64.26
03/30/04	-	-	-	-	-	-	-	-	21.46	21.85	0.39	85.97	64.41
	WELL DESTROYED												
WELL # STF-42A Area = STF S of Foster													
04/11/06	-	-	-	-	-	-	-	-	NP	25.26	0.00	91.91	66.65
12/04/06	-	-	-	-	-	-	-	-	NP	25.42	0.00	91.91	66.49
05/01/07	-	-	-	-	-	-	-	-	NP	25.55	0.00	91.91	66.36
09/25/07	-	-	-	-	-	-	-	-	25.69	25.82	0.13	91.91	66.19
03/27/08	-	-	-	-	-	-	-	-	26.03	26.21	0.18	91.91	65.84

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
09/22/08	-	-	-	-	-	-	-	-	26.22	26.44	0.22	91.91	65.64
03/26/09	-	-	-	-	-	-	-	-	NO ACCESS	-	-	-	-
10/12/09	-	-	-	-	-	-	-	-	26.38	26.51	0.13	91.91	65.50
05/04/10	-	-	-	-	-	-	-	-	25.98	26.04	0.06	91.91	65.92
10/06/10	-	-	-	-	-	-	-	-	26.23	26.38	0.15	91.91	65.64
03/30/11	-	-	-	-	-	-	-	-	25.76	25.81	0.06	91.91	66.15
09/26/11	-	-	-	-	-	-	-	-	25.77	25.92	0.15	91.91	66.10
04/03/12	-	-	-	-	-	-	-	-	26.25	26.48	0.23	91.91	65.60
09/26/12	-	-	-	-	-	-	-	-	26.12	26.13	0.01	91.91	65.79
03/20/13	-	-	-	-	-	-	-	-	NO ACCESS	-	-	91.91	-
09/25/13	-	-	-	-	-	-	-	-	26.59	26.80	0.21	91.91	65.27
04/02/14	-	-	-	-	-	-	-	-	NP	26.82	0.00	91.91	65.09
WELL # TW-1	Area = STF S of Foster												
01/07/91	-	-	-	-	-	-	-	-	23.04	26.13	3.09	87.68	63.88
11/20/91	-	-	-	-	-	-	-	-	23.16	25.39	2.23	87.60	63.89
03/02/92	-	-	-	-	-	-	-	-	23.04	25.96	2.92	87.60	63.84
05/28/92	-	-	21,000	57,000	30,000	250,000	-	-	22.85	24.29	1.64	87.60	64.65
02/27/93	-	-	-	-	-	-	-	-	22.49	23.60	1.11	87.60	64.84
04/18/94	-	-	-	-	-	-	-	-	22.32	23.36	1.04	87.60	65.03
05/02/95	-	-	-	-	-	-	-	-	22.20	ND	-22.20	87.60	-
04/11/96	-	-	-	-	-	-	-	-	22.15	23.34	1.19	87.60	65.18
04/28/97	-	-	-	-	-	-	-	-	21.65	22.94	1.29	87.60	65.63
04/20/98	-	-	-	-	-	-	-	-	19.12	22.45	3.33	87.60	67.66
04/27/99	-	-	-	-	-	-	-	-	21.35	22.85	1.50	87.60	65.86
04/10/00	-	-	-	-	-	-	-	-	22.14	22.53	0.39	87.60	65.36
04/02/01	-	-	-	-	-	-	-	-	21.29	21.88	0.59	87.60	66.17
04/01/02	-	-	-	-	-	-	-	-	NP	22.47	-	87.60	-
11/01/02	-	-	-	-	-	-	-	-	23.01	23.03	0.02	87.60	64.59
04/01/03	-	-	-	-	-	-	-	-	20.00	20.02	0.02	87.60	67.60
11/01/03	-	-	-	-	-	-	-	-	21.73	22.10	0.37	87.60	65.76
03/30/04	-	-	-	-	-	-	-	-	NP	18.93	0.00	87.60	68.67
11/22/04	-	-	-	-	-	-	-	-	22.78	22.82	0.04	(1)	-
03/29/05	-	-	-	-	-	-	-	-	21.63	21.84	0.21	(1)	-
12/13/05	-	-	-	-	-	-	-	-	21.90	21.97	0.07	(1)	-
04/11/06	-	-	-	-	-	-	-	-	22.23	22.36	0.13	(1)	-
12/04/06	-	-	-	-	-	-	-	-	NP	22.46	0.00	(1)	-
05/01/07	-	-	-	-	-	-	-	-	NP	23.86	0.00	87.60	63.74
09/25/07	-	-	-	-	-	-	-	-	NP	22.85	0.00	87.60	64.75
03/27/08	-	-	-	-	-	-	-	-	NP	23.25	0.00	87.60	64.35
09/22/08	-	-	-	-	-	-	-	-	NP	23.45	0.00	87.60	64.15
03/26/09	-	-	-	-	-	-	-	-	23.25	24.70	1.45	87.60	63.99
10/12/09	-	-	-	-	-	-	-	-	23.40	24.98	1.58	87.60	63.81
05/04/10	-	-	-	-	-	-	-	-	21.67	23.85	2.18	87.60	65.40
10/06/10	-	-	-	-	-	-	-	-	23.45	24.64	1.19	87.60	63.86
03/30/11	-	-	-	-	-	-	-	-	NP	23.31	0.00	87.60	64.29
09/26/11	-	-	-	-	-	-	-	-	NP	23.18	0.00	87.60	64.42
04/03/12	-	-	-	-	-	-	-	-	NP	23.23	0.00	87.60	64.37
09/27/12	-	-	-	-	-	-	-	-	23.86	23.95	0.09	87.60	63.72
03/22/13	-	-	-	-	-	-	-	-	NP	23.95	0.00	87.60	63.65
09/25/13	-	-	-	-	-	-	-	-	24.10	24.50	0.40	87.60	63.40
04/02/14	-	-	-	-	-	-	-	-	24.33	24.68	0.35	87.60	63.18
WELL # TW-2													
01/07/91	-	-	-	-	-	-	-	-	18.75	21.00	2.25	84.95	65.65
11/20/91	-	-	-	-	-	-	-	-	18.22	22.54	4.32	84.87	65.59
03/02/92	-	-	-	-	-	-	-	-	18.41	20.00	1.59	84.87	66.07
05/28/92	-	-	650	2,600	480	5,100	-	-	17.43	19.35	1.92	84.87	66.97
02/27/93	-	-	-	-	-	-	-	-	16.92	18.73	1.81	84.87	67.51
04/18/94	-	-	-	-	-	-	-	-	16.92	18.08	1.16	84.87	67.67
04/21/95	-	-	-	-	-	-	-	-	16.24	16.40	0.16	84.87	68.59
04/11/96	-	-	-	-	-	-	-	-	15.85	15.92	0.07	84.87	69.00
04/29/97	-	-	-	-	-	-	-	-	NP	16.10	0.00	84.87	68.77
04/21/98	-	-	-	-	-	-	-	-	13.53	13.76	0.23	84.87	71.28
04/27/99	-	-	-	-	-	-	-	-	14.48	14.87	0.39	84.87	70.29
04/10/00	-	-	-	-	-	-	-	-	15.31	15.62	0.31	84.87	69.48
04/02/01	-	-	-	-	-	-	-	-	14.85	15.00	0.15	84.87	69.98
11/12/01	-	-	-	-	-	-	-	-	16.44	16.67	0.23	84.87	68.37
	WELL DESTROYED												
FORMER GROUNDWATER PRODUCTION WELL - WW-3													
04/10/96	-	-	-	-	-	-	<0.5	-	-	-	-	-	-
05/13/96	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
11/13/96	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
05/01/97	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
11/03/97	-	-	7.1	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
12/18/97	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
04/20/98	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
11/04/98	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
04/27/99	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
11/01/99	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
04/11/00	-	-	<0.5	1.6	<0.5	2.5	-	-	-	-	-	-	-
05/22/00	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
11/06/00	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
04/04/01	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-

Table 2 - Summary of Historical Gauging and Chemical Data

Groundwater Monitoring, Former Golden West Refinery - Santa Fe Springs, CA

DATE	ANALYTICAL PARAMETERS								DEPTH TO PRODUCT	DEPTH TO GROUNDWATER	PRODUCT THICKNESS	CASING ELEVATION	GROUNDWATER ELEVATION
	TPHg (mg/L)	TPHd (mg/L)	BENZENE (µg/L)	TOLUENE (µg/L)	EthylBenzene (µg/L)	XYLENE (µg/L)	MTBE (µg/L)	TBA (µg/L)	(feet)	(feet)	(feet)	(feet)	(feet)
11/21/01	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
11/12/01	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
04/08/02	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	-	-	-	-
04/01/02	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	-	-	-	-	-
WELL DESTROYED													
FORMER GROUNDWATER PRODUCTION WELL - WW-7													
08/24/87	-	-	7.0	0.03	<1.0	0.04	-	-	-	-	-	-	-
11/19/87	-	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-
12/04/87	-	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-
02/09/88	-	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-
05/18/88	-	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-
08/29/88	-	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-
11/19/88	-	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-
02/27/89	-	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-
05/19/89	-	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-
08/08/89	-	-	<0.001	0.003	<0.001	<0.001	-	-	-	-	-	-	-
11/13/89	-	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-
02/14/90	-	-	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	-	-
05/31/90	-	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-
08/23/90	-	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-
11/19/90	-	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-
WELL DESTROYED													
FORMER GROUNDWATER PRODUCTION WELL - WW-8													
05/13/96	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
11/13/96	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
05/01/97	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
11/03/97	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
04/20/98	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
11/04/98	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
04/27/99	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
11/01/99	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
04/11/00	-	-	<0.5	<0.5	<0.5	3.6	-	-	-	-	-	-	-
05/22/00	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-
11/06/00	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-
WELL DESTROYED													

NOTE: *GAUGING DATA*: data for 1984 to 2003: only reduced data are displayed: one annual representative dataset data for the event with the highest and lowest recorded groundwater depth, all data for events where sampling and analyses were completed.

NP = No free product

" - " = Not analyzed / Not available

HVOC: Halogenated VOC

STF 15 to STF-38, A-7, A-32, A-42 and A-44 well head elevations changed in Spring 04 during construction

**** Detected dumped liquid in well AO-11. Laboratory tests results showed that the liquid is a mixture of waste oil, diesel and gasoline.

16.24* Adjusted measurement, approx. 0.15' lower than the actual field measurement, due to well concrete apron/PVC casing dislocated (moved up approx. 0.15').

(1) well heads in South Tank Farm barrier area under cosntruction in 2004-2005

Note: Bold values in Water elevation: highest and lowest historical values

Note: TBA Not previously reported on this table (11/16/07).

FIGURES

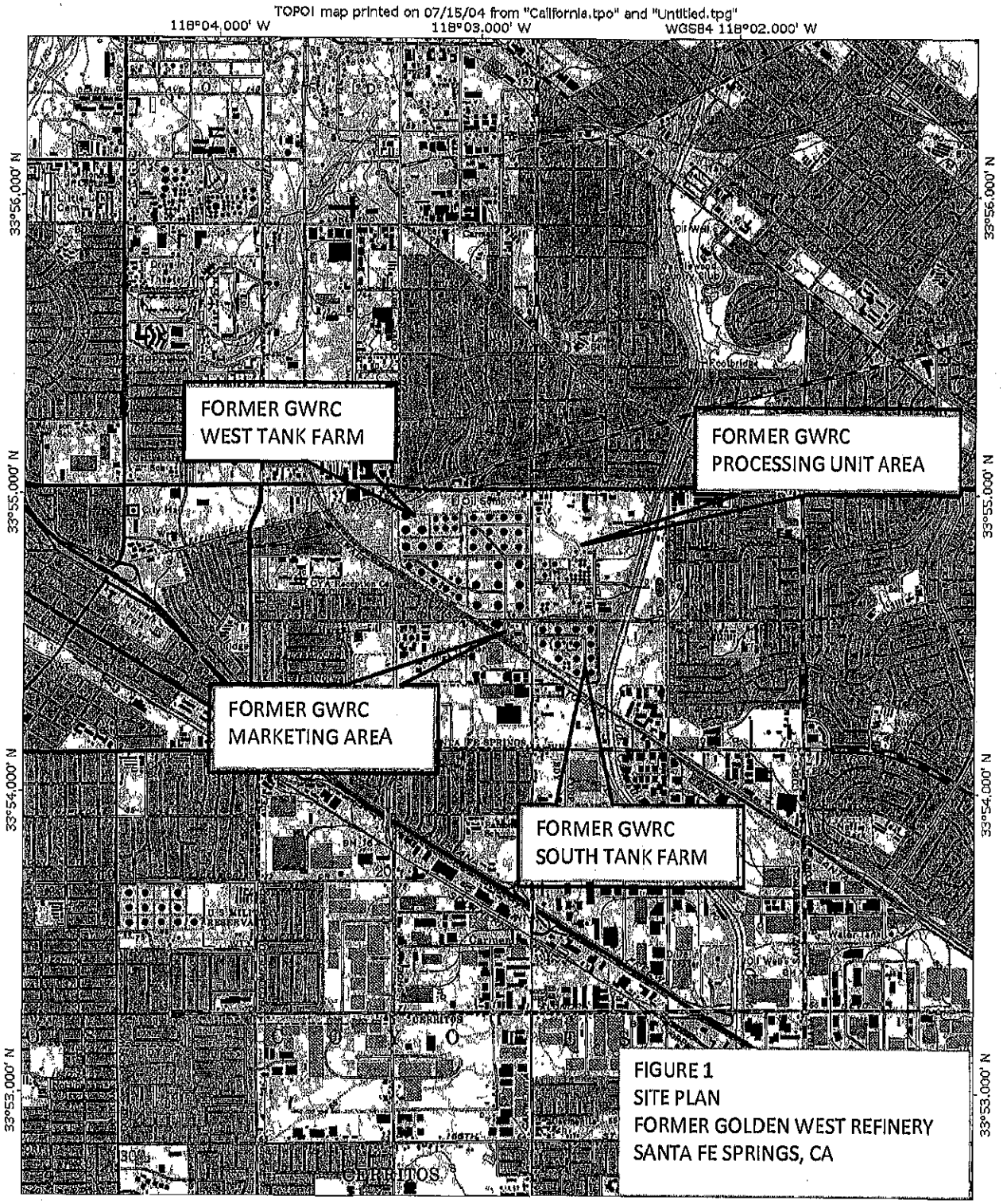
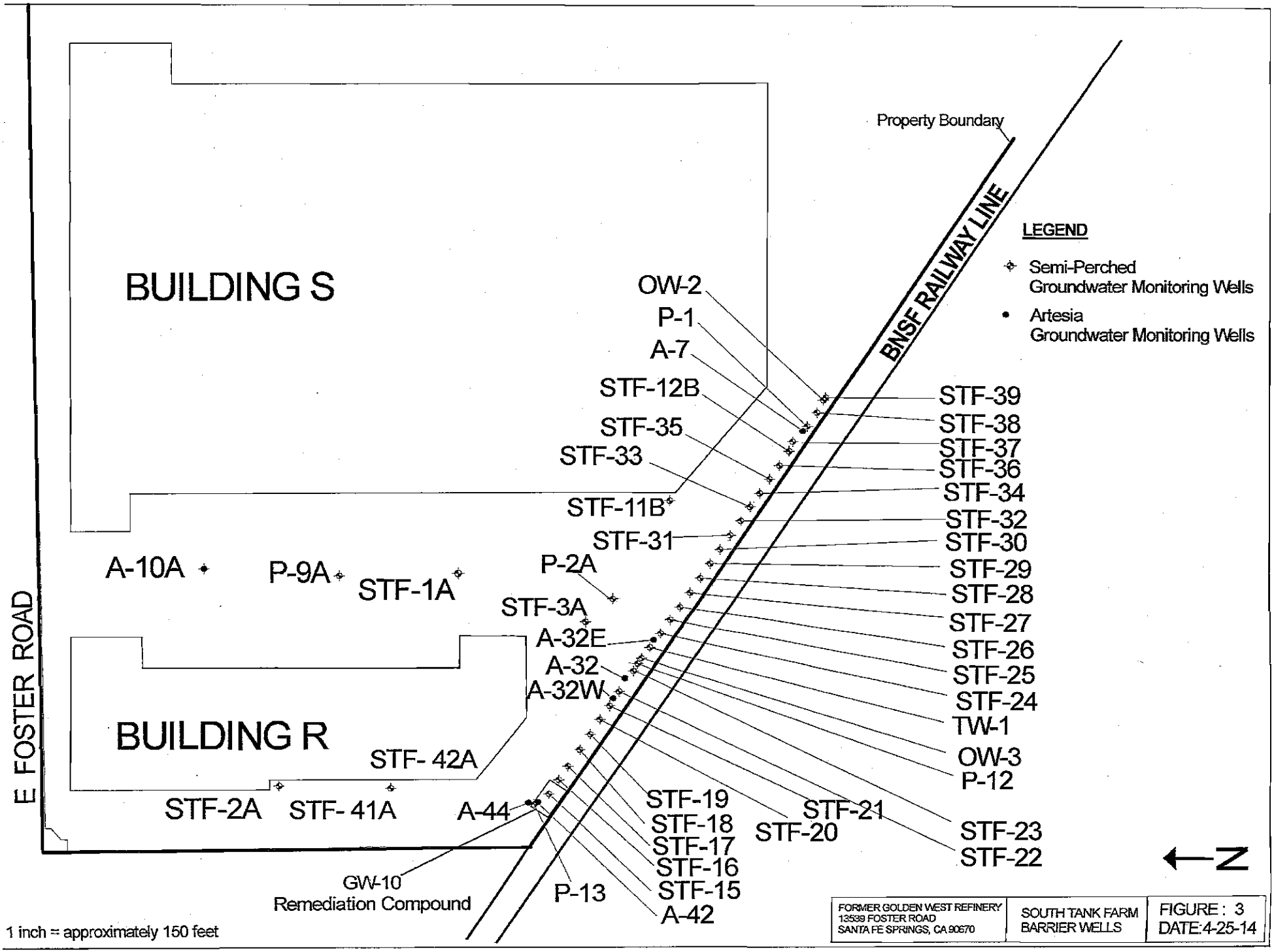
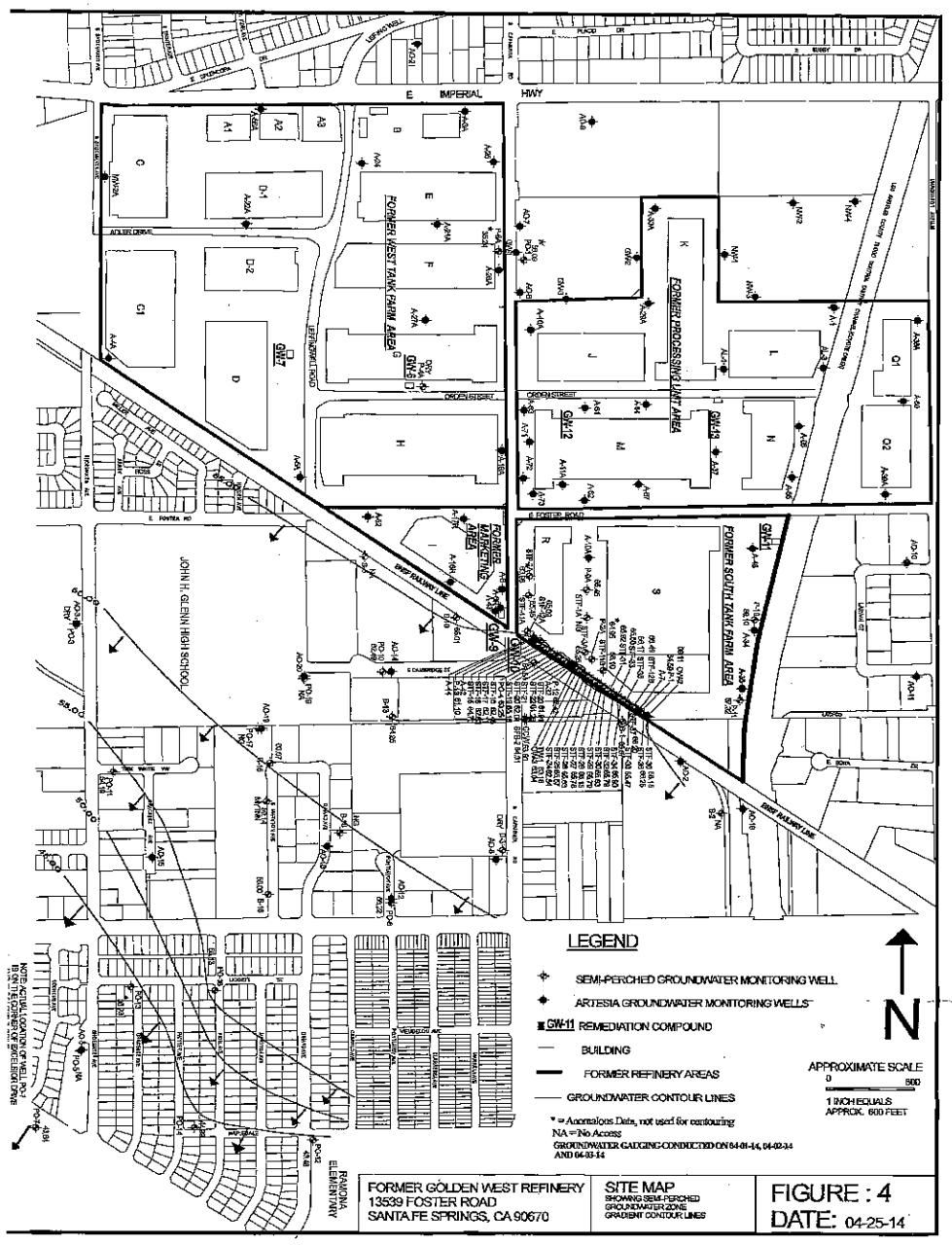


FIGURE 1
SITE PLAN
FORMER GOLDEN WEST REFINERY
SANTA FE SPRINGS, CA

FORMER PROCESSING UNIT AREA
FORMER SOUTH TANK FARM AREA
FORMER WEST TANK FARM AREA
FORMER MARKETING AREA
JOHN H. GLENN HIGH SCHOOL
RAMONA ELEMENTARY
LEGEND
SEMI-PERCHED GROUNDWATER MONITORING WELL
ARTESIA GROUNDWATER MONITORING WELLS
REMEDIATION COMPOUND
BUILDING
FORMER REFINERY AREAS
APPROXIMATE SCALE
1 INCH EQUALS
APPROX. 600 FEET
NOTE: ACTUAL LOCATION OF WELL PO-7 IS ON THE CORNER OF EXCELSIOR DRIVE
FIGURE: 2
DATE: 6 - 10 - 14
SITE MAP
FORMER GOLDEN WEST REFINERY
13539 FOSTER ROAD
SANTA FE SPRINGS, CA 90670

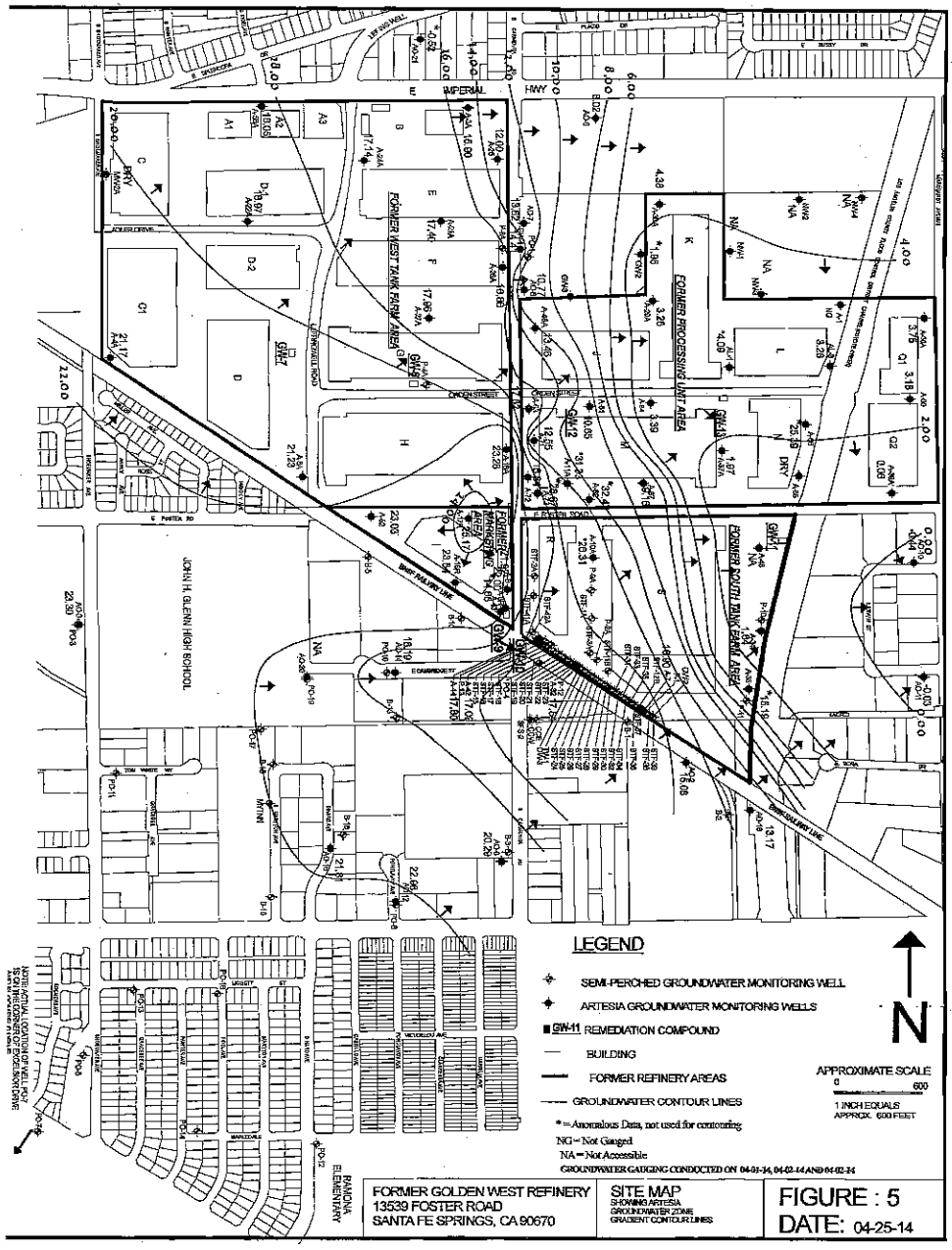

Property Boundary
BNSF RAILWAY LINE
LEGEND
Semi-Perched Groundwater Monitoring Wells
Artesia Groundwater Monitoring Wells
BUILDING S
BUILDING R
E FOSTER ROAD
OW-2
P-1
A-7
STF-12B
STF-35
STF-33
STF-11B
STF-31
P-2A
STF-3A
A-32E
A-32
A-32W
A-10A
P-9A
STF-1A
STF- 42A
STF-2A
STF- 41A
A-44
GW-10
Remediation Compound
P-13
STF-19
STF-18
STF-17
STF-16
STF-15
A-42
STF-20
STF-21
STF-39
STF-38
STF-37
STF-36
STF-34
STF-32
STF-30
STF-29
STF-28
STF-27
STF-26
STF-25
STF-24
TW-1
OW-3
P-12
STF-23
STF-22
Z
1 inch = approximately 150 feet
FORMER GOLDEN WEST REFINERY
13539 FOSTER ROAD
SANTA FE SPRINGS, CA 90670
SOUTH TANK FARM
BARRIER WELLS
FIGURE : 3
DATE:4-25-14



FORMER GOLDEN WEST REFINERY
13539 FOSTER ROAD
SANTA FE SPRINGS, CA 90670

SITE MAP
SHOWING SEMI-PERCHED GROUNDWATER ZONE GRADIENT CONTOUR LINES

FIGURE : 4
DATE: 04-25-14

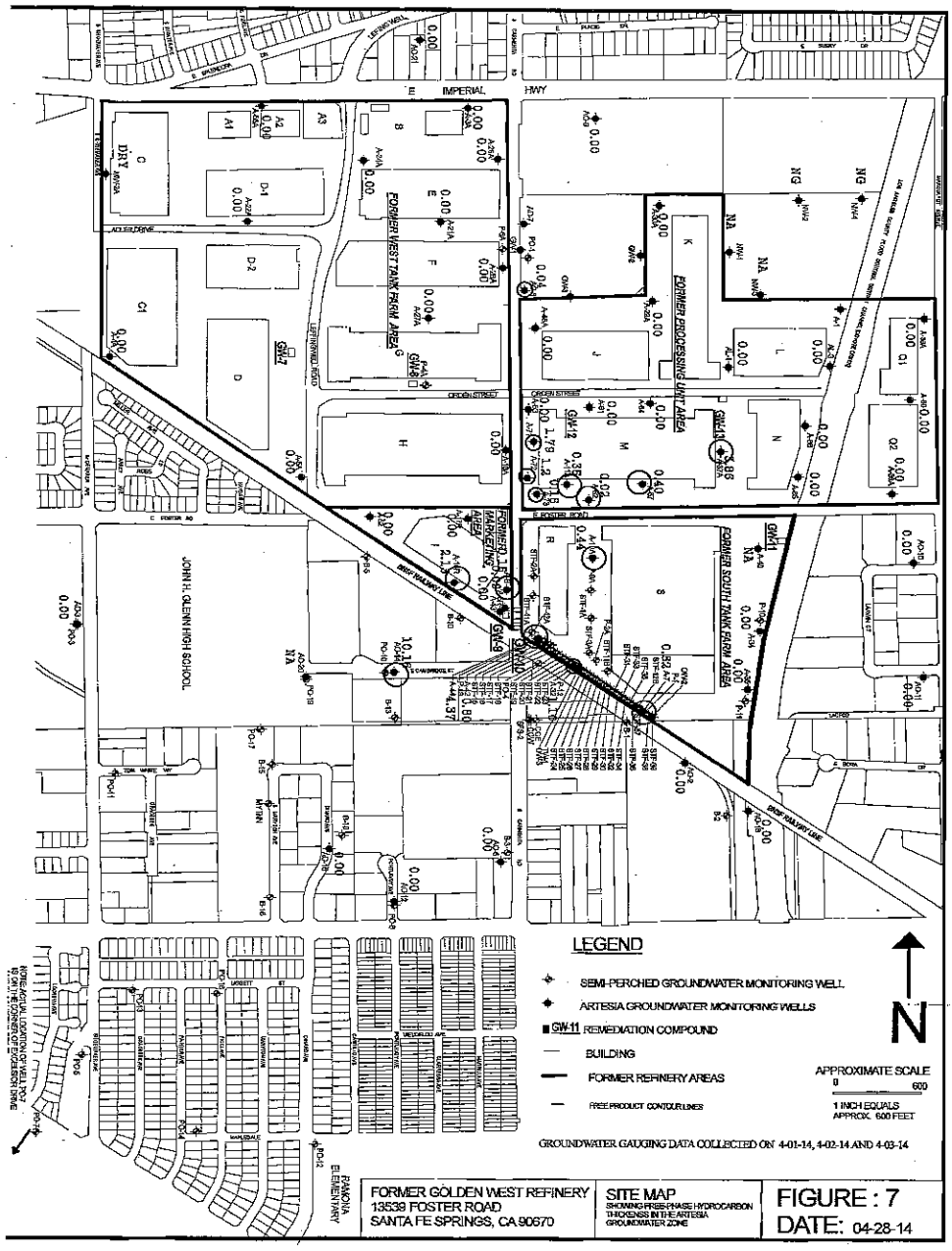


FORMER GOLDEN WEST REFINERY
13539 FOSTER ROAD
SANTA FE SPRINGS, CA 90670

SITE MAP
SHOWING ARTESIA GROUNDWATER ZONE GRADIENT CONTOUR LINES

FIGURE : 5
DATE: 04-25-14

FORMER PROCESSING UNIT AREA
FORMER SOUTH TANK FARM AREA
FORMER WEST TANK FARM AREA
FORMER MARKETING AREA
JOHN H. GLENN HIGH SCHOOL
RAMONA ELEMENTARY
LEGEND
SEMI-PERCHED GROUNDWATER MONITORING WELL
ARTESIA GROUNDWATER MONITORING WELLS
GW-11 REMEDIATION COMPOUND
BUILDING
FORMER REFINERY AREAS
FREE PRODUCT
APPROXIMATE SCALE
1 INCH EQUALS APPROX. 600 FEET
GROUNDWATER GAUGING DATA COLLECTED ON 4-01-14, 4-02-14, AND 4-03-14
NOTE: ACTUAL LOCATION OF WELL PO-7 IS ON THE CORNER OF EXCELSIOR DRIVE
FIGURE : 6
DATE: 04-25-14
SITE MAP
FORMER GOLDEN WEST REFINERY
13539 FOSTER ROAD
SANTA FE SPRINGS, CA 90670



FORMER GOLDEN WEST REFINERY
13539 FOSTER ROAD
SANTA FE SPRINGS, CA 90670

SITE MAP
SHOWING FREE-PHASE HYDROCARBON THICKENSS IN THE ARTESIA GROUNDWATER ZONE

FIGURE : 7
DATE: 04-28-14

FIGURE : 8
DATE: 04-25-14
SITE MAP
SHOWING
FORMER GOLDEN WEST REFINERY
13539 FOSTER ROAD
SANTA FE SPRINGS, CA 90670
LEGEND
SEMI-PERCHED GROUNDWATER MONITORING WELL
ARTESIA GROUNDWATER MONITORING WELLS
REMEDIATION COMPOUND
BUILDING
FORMER REFINERY AREAS
TPHG CONTOUR LINES
TPHG CONCENTRATIONS IN UG/L
FP = FREE PRODUCT PRESENT IN WELL
GROUNDWATER WELLS SAMPLED ON 04-03-14
APPROXIMATE SCALE
1 INCH EQUALS
APPROX. 600 FEET
FORMER PROCESSING UNIT AREA
FORMER SOUTH TANK FARM AREA
FORMER WEST TANK FARM AREA
FORMER MARKETING AREA
JOHN H. GLENN HIGH SCHOOL
RAMONA ELEMENTARY
NOTE: ACTUAL LOCATION OF WELL PO-2 IS ON THE CORNER OF EXCELSIOR DRIVE

FORMER GOLDEN WEST REFINERY
13539 FOSTER ROAD
SANTA FE SPRINGS, CA 90670

SITE MAP
SHOWING THE DISSOLVED PHASE BENZENE CONCENTRATIONS IN THE ARTESIA GROUNDWATER ZONE

FIGURE : 9
DATE: 04-25-14

FIGURE : 10
DATE: 04-25-14
SITE MAP
SEMI-PERCHED GROUNDWATER MONITORING WELL
ARTESIAN GROUNDWATER MONITORING WELLS
REMEDIATION COMPOUND
BUILDING
FORMER REFINERY AREAS
MTBE CONTOUR LINES
MTBE CONCENTRATIONS IN UG/L
FP = FREE PRODUCT
GROUNDWATER SAMPLING COLLECTED ON 4-03-14
APPROXIMATE SCALE
1 INCH EQUALS
APPROX. 600 FEET
FORMER GOLDEN WEST REFINERY
13539 FOSTER ROAD
SANTA FE SPRINGS, CA 90670
FORMER PROCESSING UNIT AREA
FORMER SOUTH TANK FARM AREA
FORMER WEST TANK FARM AREA
FORMER REDESIGNED AREA
JOHN H. GLENN HIGH SCHOOL
RAMONA ELEMENTARY
IMPERIAL HWY
NOTE: ACTUAL LOCATION OF WELL PO-7 IS ON THE CORNER OF EXCELSIOR DRIVE

APPENDIX A

EARTH MANAGEMENT CO. Environmental Remediation

FIELD DATA - GROUNDWATER PURGING & SAMPLING

Site: GOLDEN WEST REFINING - GW-4	Date: 4/3/2014
Address: 13116 IMPERIAL HWY, SANTA FE SPRINGS, CA 90670	Well ID#: A-4A
Personnel: MIGUEL OCEGUEDA	Weather: Sunny

Purging Equipment:
☐ Bailer ☐ Diaphragm Pump ☐ Electric submersible ☐ Pneumatic submersible
☒ Disposable Bailer ☐ Vacuum Truck ☐ Extraction Pump ☐ Other

Sampling Equipment:
☒ Disposable Bailer
☐ Other

Monitoring Eq.: Water level instrument: pH/Temp/Cond Meter:

Time of measurement:	7:34	Well casing dia. (in)	4
Total Well Depth (ft):	87.75	Depth To Product (ft)	—
Depth To Water (ft):	74.99	Product Thickness (ft)	—
Water Column (ft):	12.76		

Purge Vol Calculation: ☒ Casing Vol. ☐ Borehole Vol. (SD)

Multipliers for purge volume estimation:

Well Dia	1"	2"	4"	6"	12"
3 Casing Vol	0.12	0.49	1.96	4.40	17.62
Borehole Vol	0.40	0.77	1.61	2.57	7.71

Note for borehole volume, add 1/2 BH vol for each subsequent passes

Estimated Purge Volume (gal): 12.76 (water column) × 1.96 (multiplier) = 25

PURGING DATA

Time (hh:mm)	Time (min)	Volume removed (gallons)	Temp °F or °C	pH	Cond µS	Turbidity	Observations
7:42	0	START PURGING	—	—	—	—	
7:51	9	8	17.0	7.8	1150	—	
8:00	9	8	17.2	7.6	1153	—	
8:10	10	9	17.5	7.3	1155		

DTW Immed. after purge (ft): 75.26 | Actual purged volume (gal): 25 | Avg Purge Rate (gpm): .72

RECOVERY CALCULATION

Method: ☒ Total Well Depth: 80% Recovery = [12.76 (Water Column)] x 0.20 + [74.99 (DTW Initial)] = 77.54 ft

☐ Max Drawdown (SD): 80% Recovery = ([ ] (DTW after purge) - [ ] (DTW Initial)) x 0.20 + [ ] (DTW Initial) = _____ ft

SAMPLING DATA

Date:	Time:	pH (if required):	D.O. (if required):	O.R.P. (if required):
4-3-14	9:35 (am) / pm			

Depth To Water Before Sampling (ft) 74.99

Notes:

Comments:

EARTH MANAGEMENT CO.
Environmental Remediation

FIELD DATA - GROUNDWATER PURGING & SAMPLING

Site: GOLDEN WEST REFINING - GW-4	Date: 4/3/2014
Address: 13116 IMPERIAL HWY, SANTA FE SPRINGS, CA 90670	Well ID#: A-5A
Personnel: MIGUEL OCEGUEDA	Weather: Sunny

Purging Equipment:
☒ Bailer ☐ Diaphragm Pump ☐ Electric submersible ☐ Pneumatic submersible
☒ Disposable Bailer ☐ Vacuum Truck ☐ Extraction Pump ☐ Other

Sampling Equipment:
☒ Disposable Bailer
☐ Other

Monitoring Eq.: Water level instrument: pH/Temp/Cond Meter:

Time of measurement:	6:45	Well casing dia. (in)	4
Total Well Depth (ft):	79.65	Depth To Product (ft)	—
Depth To Water (ft):	71.64	Product Thickness (ft)	—
Water Column (ft):	8.01		

Multipliers for purge volume estimation:

Well Dia	1"	2"	4"	6"	12"
3 Casing Vol	0.12	0.49	1.96	4.40	17.62
Borehole Vol	0.40	0.77	1.61	2.57	7.71

Note for borehole volume, add 1/2 BH vol for each subsequent passes

Estimated Purge Volume (gal): 8.01 (water column) x 1.96 (multiplier) = 16

Purge Vol Calculation: ☒ Casing Vol. ☐ Borehole Vol. (SD)

PURGING DATA

Time (hh:mm)	Time (min)	Volume removed (gallons)	Temp °F or °C	pH	Cond µS	Turbidity	Observations
6:56	0	START PURGING	--	--	--	--	
7:02	6	5	16.3	7.4	1328	—	
7:08	6	5	16.6	7.3	1332	—	
7:15	7	6	17.1	7.1	1337	—	

DTW Immed. after purge (ft): 71.75 *Actual purged volume (gal):* 16 *Avg Purge Rate (gpm):* 1.19

RECOVERY CALCULATION

Method: ☒ Total Well Depth: 80% Recovery = [8.01 (Water Column)] x 0.20 + [71.64 (DTW Initial)] = 73.24 ft

☐ Max Drawdown (SD): 80% Recovery = ([ ] (DTW after purge) - [ ] (DTW Initial)) x 0.20 + [ ] (DTW Initial) = _____ ft

SAMPLING DATA

Date:	Time:	pH (if required):	D.O. (if required):	O.R.P. (if required):
4-3-14	9:20 am / pm			

Depth To Water Before Sampling (ft) 71.64

Notes:

Comments:

EARTH MANAGEMENT CO.
Environmental Remediation

FIELD DATA - GROUNDWATER PURGING & SAMPLING

Site:	GOLDEN WEST REFINING - GW-4	Date	4/3/2014
Address:	13116 IMPERIAL HWY, SANTA FE SPRINGS, CA 90670	Well ID#	A-10A
Personnel:	ARMANDO GUARDADO	Weather	

Purging Equipment:
☑ Bailer ☐ Diaphragm Pump ☐ Electric submersible ☐ Pneumatic submersible
☐ Disposable Bailer ☐ Vacuum Truck ☐ Extraction Pump ☐ Other

Sampling Equipment:
☐ Disposable Bailer
☐ Other none

Monitoring Eq.: Water level instrument: pH/Temp/Cond Meter:

Time of measurement:	8:35	Well casing dia. (in)	4"
Total Well Depth (ft):	73.83	Depth To Product (ft)	62.56
Depth To Water (ft):	63.00	Product Thickness (ft)	0.44
Water Column (ft):	10.83		

Multipliers for purge volume estimation:

Well Dia	1"	2"	4"	6"	12"
3 Casing Vol	0.12	0.49	1.96	4.40	17.62
Borehole Vol	0.40	0.77	1.61	2.57	7.71

Note for borehole volume, add 1/2 BH vol for each subsequent passes

Estimated Purge Volume (gal): 10.83 (water column) × 1.96 (multiplier) = 21

Purge Vol Calculation: ☐ Casing Vol. ☐ Borehole Vol. (SD)

PURGING DATA

Time (hh:mm)	Time (min)	Volume removed (gallons)	Temp °F or °C	pH	Cond µS	Turbidity	Observations
	0	START PURGING	--	--	--	--	
							product Removal only

DTW immed. after purge (ft): — *Actual purged volume (gal):* — *Avg Purge Rate (gpm):* —

RECOVERY CALCULATION

Method: ☐ Total Well Depth: 80% Recovery = [10.83 (Water Column)] x 0.20 + [63.00 (DTW Initial)] = 65.16 ft

☐ Max Drawdown (SD): 80% Recovery = ([ ] (DTW after purge) - [ ] (DTW Initial)) x 0.20 + [ ] (DTW Initial) = _____ ft

SAMPLING DATA

Date:	Time:	pH (if required):	D.O. (if required):	O.R.P. (if required):
4.3.14	— am / pm			

Depth To Water Before Sampling (ft)

Notes:

Comments:

EARTH MANAGEMENT CO.
Environmental Remediation

FIELD DATA - GROUNDWATER PURGING & SAMPLING

Site: GOLDEN WEST REFINING - GW-4	Date: 4/3/2014
Address: 13116 IMPERIAL HWY, SANTA FE SPRINGS, CA 90670	Well ID#: A-17R
Personnel: ARMANDO GUARDADO	Weather:

Purging Equipment:
☑ Bailer ☐ Diaphragm Pump ☐ Electric submersible ☐ Pneumatic submersible
☐ Disposable Bailer ☐ Vacuum Truck ☐ Extraction Pump ☐ Other

Sampling Equipment:
☑ Disposable Bailer
☐ Other

Monitoring Eq.: Water level instrument: pH/Temp/Cond Meter: HANNA

Time of measurement:	7:58	Well casing dia. (in)	4"
Total Well Depth (ft):	80.21	Depth To Product (ft)	-
Depth To Water (ft):	65.41	Product Thickness (ft)	-
Water Column (ft):	14.81		

Multipliers for purge volume estimation:

Well Dia	1"	2"	4"	6"	12"
3 Casing Vol	0.12	0.49	1.96	4.40	17.62
Borehole Vol	0.40	0.77	1.61	2.57	7.71

Note for borehole volume, add 1/2 BH vol for each subsequent passes

Estimated Purge Volume (gal): 14.81 (water column) x 1.96 (multiplier) = 29

Purge Vol Calculation: ☐ Casing Vol. ☐ Borehole Vol. (SD)

PURGING DATA

Time (hh:mm)	Time (min)	Volume removed (gallons)	Temp °F or °C	pH	Cond µS	Turbidity	Observations
7:58	0	START PURGING	--	--	--	--	
8:17	15	10	19.3	17.4	10 61	-	well DRies AT 20 Gallons
8:32	15	10	19.2	7.3	10 60	-	

DTW immed. after purge (ft): 79.83 *Actual purged volume (gal):* 20 *Avg Purge Rate (gpm):* 0.6

RECOVERY CALCULATION

Method: ☐ Total Well Depth: 80% Recovery = [14.81 (Water Column)] x 0.20 + [65.41 (DTW Initial)] = 68.37 ft

☐ Max Drawdown (SD): 80% Recovery = ([ ] (DTW after purge) - [ ] (DTW Initial)) x 0.20 + [ ] (DTW Initial) = _____ ft

SAMPLING DATA

Date:	Time:	pH (if required):	D.O. (if required):	O.R.P. (if required):
4-3.14	10:30 am / pm			

Depth To Water Before Sampling (ft) 65.51

Notes:

Comments:

EARTH MANAGEMENT CO.
Environmental Remediation

FIELD DATA - GROUNDWATER PURGING & SAMPLING

Site: GOLDEN WEST REFINING - GW-4	Date: 4/3/2014
Address: 13116 IMPERIAL HWY, SANTA FE SPRINGS, CA 90670	Well ID#: A-21A
Personnel: ARMANDO GUARDADO	Weather:

Purging Equipment:
- ☑ Bailer
- ☐ Diaphragm Pump
- ☐ Electric submersible
- ☐ Pneumatic submersible
- ☐ Disposable Bailer
- ☐ Vacuum Truck
- ☐ Extraction Pump
- ☐ Other

Sampling Equipment:
- ☑ Disposable Bailer
- ☐ Other

Monitoring Eq.: Water level instrument: pH/Temp/Cond Meter: HANNA

Time of measurement:	7:20	Well casing dia. (in)	4"
Total Well Depth (ft):	85.22	Depth To Product (ft)	–
Depth To Water (ft):	79.83	Product Thickness (ft)	–
Water Column (ft):	5.39		

Multipliers for purge volume estimation:

Well Dia	1"	2"	4"	6"	12"
3 Casing Vol	0.12	0.49	1.96	4.40	17.62
Borehole Vol	0.40	0.77	1.61	2.57	7.71

Note for borehole volume, add 1/2 BH vol for each subsequent passes

Estimated Purge Volume (gal):

Purge Vol Calculation: ☑ Casing Vol. ☐ Borehole Vol. (SD)

5.39 (water column) x 1.96 (multiplier) = 10

PURGING DATA

Time (hh:mm)	Time (min)	Volume removed (gallons)	Temp °F or °C	pH	Cond µS	Turbidity	Observations
7:30	0	START PURGING	---	---	---	---	
7:40	10	5	19.3	7.2	1071	–	
7:50	10	5	19.4	7.1	1070	–	

DTW immed. after purge (ft): 83.21 | Actual purged volume (gal): 10 | Avg Purge Rate (gpm): 0.5

RECOVERY CALCULATION

Method: ☑ Total Well Depth: 80% Recovery = [5.39 (Water Column)] x 0.20 + [85.22 (DTW Initial)] = 86.29 ft

☐ Max Drawdown (SD): 80% Recovery = ([ ] (DTW after purge) - [ ] (DTW Initial)) x 0.20 + [ ] (DTW Initial) = _____ ft

SAMPLING DATA

Date:	Time:	pH (if required):	D.O. (if required):	O.R.P. (if required):
4-3-14	9:50 am / pm			

Depth To Water Before Sampling (ft) 79.94

Notes:

Comments:

EARTH MANAGEMENT CO.
Environmental Remediation

FIELD DATA - GROUNDWATER PURGING & SAMPLING

Site: GOLDEN WEST REFINING - GW-4	Date 4/3/2014
Address: 13116 IMPERIAL HWY, SANTA FE SPRINGS, CA 90670	Well ID# A-38A
Personnel: LUIS GUARDADO	Weather SUNNY

Purging Equipment:
☐ Bailer ☐ Diaphragm Pump ☐ Electric submersible ☐ Pneumatic submersible
☒ Disposable Bailer ☐ Vacuum Truck ☐ Extraction Pump ☐ Other

Sampling Equipment:
☒ Disposable Bailer
☐ Other

Monitoring Eq.: Water level instrument: KECK pH/Temp/Cond Meter: HANNA

Time of measurement:	8:00	Well casing dia. (in)	4"
Total Well Depth (ft):	119.25	Depth To Product (ft)	—
Depth To Water (ft):	101.45	Product Thickness (ft)	—
Water Column (ft):	17.80		

Purge Vol Calculation: ☒ Casing Vol. ☐ Borehole Vol. (SD)

Multipliers for purge volume estimation:

Well Dia	1"	2"	4"	6"	12"
3 Casing Vol	0.12	0.49	1.96	4.40	17.62
Borehole Vol	0.40	0.77	1.61	2.67	7.71

Note for borehole volume, add 1/2 BH vol for each subsequent passes

Estimated Purge Volume (gal): 17.80 (water column) x 1.96 (multiplier) = 35

PURGING DATA

Time (hh:mm)	Time (min)	Volume removed (gallons)	Temp °F or °C	pH	Cond µS	Turbidity	Observations
8:07	0	START PURGING	—	—	—	—	
8:16	9	9	19.5	7.3	1058	—	
8:25	9	9	19.6	7.2	1062	—	
8:34	9	9	19.8	7.1	1064	—	
8:42	8	8	19.9	7.1	1069	—	
	35						

DTW immed. after purge (ft): 103.85 *Actual purged volume (gal):* 35 *Avg Purge Rate (gpm):* 1.

RECOVERY CALCULATION

Method: ☒ Total Well Depth: 80% Recovery = [17.80 (Water Column)] x 0.20 + [101.45 (DTW Initial)] = 105.01 ft

☐ Max Drawdown (SD): 80% Recovery = ([ ] (DTW after purge) - [ ] (DTW Initial)) x 0.20 + [ ] (DTW Initial) = _____ ft

SAMPLING DATA

Date:	Time:	pH (if required):	D.O. (if required):	O.R.P. (if required):
4.3.14	10:39 am / pm			

Depth To Water Before Sampling (ft) 101.45	Notes:

Comments:

EARTH MANAGEMENT CO. Environmental Remediation

FIELD DATA - GROUNDWATER PURGING & SAMPLING

Site: GOLDEN WEST REFINING - GW-4	Date: 4/3/2014
Address: 13116 IMPERIAL HWY, SANTA FE SPRINGS, CA 90670	Well ID#: A-39A
Personnel: LUIS GUARDADO	Weather: SUNNY

Purging Equipment:
☐ Bailer ☐ Diaphragm Pump ☐ Electric submersible ☐ Pneumatic submersible
☒ Disposable Bailer ☐ Vacuum Truck ☐ Extraction Pump ☐ Other

Sampling Equipment:
☒ Disposable Bailer
☐ Other

Monitoring Eq.: Water level instrument: KECK pH/Temp/Cond Meter: HANNA

Time of measurement:	9:03	Well casing dia. (in)	4"
Total Well Depth (ft):	115.13	Depth To Product (ft)	—
Depth To Water (ft):	104.75	Product Thickness (ft)	—
Water Column (ft):	10.38		

Multipliers for purge volume estimation:

Well Dia	1"	2"	4"	6"	12"
3 Casing Vol	0.12	0.49	1.96	4.40	17.62
Borehole Vol	0.40	0.77	1.61	2.57	7.71

Note for borehole volume, add 1/2 BH vol for each subsequent passes

Estimated Purge Volume (gal): 10.38 (water column) × 1.96 (multiplier) = 20

Purge Vol Calculation: ☒ Casing Vol. ☐ Borehole Vol. (SD)

PURGING DATA

Time (hh:mm)	Time (min)	Volume removed (gallons)	Temp °F or °C	pH	Cond µS	Turbidity	Observations
9:13	0	START PURGING	---	---	---	---	
9:18	5	5	19.7	7.2	1069	—	
9:23	5	5	19.8	7.0	1071	—	
9:28	5	5	20.0	7.0	1074	—	
9:33	5	5	20.1	6.9	1078	—	
	20						

DTW immed. after purge (ft): 110.60 *Actual purged volume (gal):* 20 *Avg Purge Rate (gpm):* 1.

RECOVERY CALCULATION

Method: ☒ Total Well Depth: 80% Recovery = [10.38 (Water Column)] x 0.20 + [104.75 (DTW Initial)] = 106.82 ft

☐ Max Drawdown (SD): 80% Recovery = ([ ] (DTW after purge) - [ ] (DTW initial)) x 0.20 + [ ] (DTW initial) = _____ ft

SAMPLING DATA

Date:	Time:	pH (if required):	D.O. (if required):	O.R.P. (if required):
4-3-14	11:27 am/pm			

Depth To Water Before Sampling (ft): 104.77

Notes:

Comments:

EARTH MANAGEMENT CO.
Environmental Remediation

FIELD DATA - GROUNDWATER PURGING & SAMPLING

Site: GOLDEN WEST REFINING - GW-4	Date: 4/3/2014
Address: 13116 IMPERIAL HWY, SANTA FE SPRINGS, CA 90670	Well ID#: AO-10
Personnel: ARTURO OBANDO	Weather: Sunny

Purging Equipment:
☐ Bailer ☐ Diaphragm Pump ☐ Electric submersible ☐ Pneumatic submersible
☐ Disposable Bailer ☐ Vacuum Truck ☒ Extraction Pump ☐ Other

Sampling Equipment:
☒ Disposable Bailer
☐ Other

Monitoring Eq.: Water level instrument: pH/Temp/Cond Meter: hanna

Time of measurement:	7:30	Well casing dia. (in)	4
Total Well Depth (ft):	119.30	Depth To Product (ft)	—
Depth To Water (ft):	87.98	Product Thickness (ft)	—
Water Column (ft):	31.32		

Purge Vol Calculation: ☒ Casing Vol. ☐ Borehole Vol. (SD)

Multipliers for purge volume estimation:

Well Dia	1"	2"	4"	6"	12"
3 Casing Vol	0.12	0.49	1.96	4.40	17.62
Borehole Vol	0.40	0.77	1.61	2.67	7.71

Note for borehole volume, add 1/2 BH vol for each subsequent passes

Estimated Purge Volume (gal): 31.32 (water column) × 1.96 (multiplier) = 61

PURGING DATA

Time (hh:mm)	Time (min)	Volume removed (gallons)	Temp °F or °C	pH	Cond µS	Turbidity	Observations
7:45	0	START PURGING	--	--	--	--	
8:00	15	16	18.0	7.4	1024	↓	
8:15	15	15	18.1	7.4	1010	↓	
8:30	15	15	18.1	7.3	1021	↓	
8:45	15	15	18.2	7.3	1029	↓	

DTW immed. after purge (ft): 88.61 *Actual purged volume (gal):* 61 *Avg Purge Rate (gpm):* 1.01

RECOVERY CALCULATION

Method: ☒ Total Well Depth: 80% Recovery = [31.32 (Water Column)] x 0.20 + [87.98 (DTW Initial)] = 94.24 ft

☐ Max Drawdown (SD): 80% Recovery = ([ ] (DTW after purge) - [ ] (DTW Initial)) x 0.20 + [ ] (DTW Initial) = _____ ft

SAMPLING DATA

Date:	Time:	pH (if required):	D.O. (if required):	O.R.P. (if required):
4-3-14	10:50 am / pm			

Depth To Water Before Sampling (ft) 88.00	Notes:

Comments:

EARTH MANAGEMENT CO.
Environmental Remediation

FIELD DATA - GROUNDWATER PURGING & SAMPLING

Site: GOLDEN WEST REFINING - GW-4	Date 4/3/2014
Address: 13116 IMPERIAL HWY, SANTA FE SPRINGS, CA 90670	Well ID# AO-11
Personnel: ARTURO OBANDO	Weather Sunny

Purging Equipment:
☐ Bailer ☐ Diaphragm Pump ☐ Electric submersible ☐ Pneumatic submersible
☐ Disposable Bailer ☐ Vacuum Truck ☒ Extraction Pump ☐ Other

Sampling Equipment:
☒ Disposable Bailer
☐ Other

Monitoring Eq.: Water level instrument: pH/Temp/Cond Meter: hanna

Time of measurement:	9:05	Well casing dia. (in)	4"
Total Well Depth (ft):	117.6	Depth To Product (ft)	—
Depth To Water (ft):	86.11	Product Thickness (ft)	—
Water Column (ft):	31.49		

Multipliers for purge volume estimation:

Well Dia	1"	2"	4"	6"	12"
3 Casing Vol	0.12	0.49	1.96	4.40	17.62
Borehole Vol	0.40	0.77	1.61	2.57	7.71

Note for borehole volume, add 1/2 BH vol for each subsequent passes

Estimated Purge Volume (gal):

Purge Vol Calculation: ☒ Casing Vol. ☐ Borehole Vol. (SD) 31.49 (water column) x 1.96 (multiplier) = 62

PURGING DATA

Time (hh:mm)	Time (min)	Volume removed (gallons)	Temp °F or °C	pH	Cond µS	Turbidity	Observations
9:15	0	START PURGING	—	—	—	—	
9:30	15	16	20.1	6.9	1917	↓	
9:45	15	16	20.3	6.8	1735	↓	
10:00	15	15	20.5	6.9	1743	↓	
10:15	15	15	20.9	7.0	1749	↓	

DTW immed. after purge (ft): 86.93 | Actual purged volume (gal): 62 | Avg Purge Rate (gpm): 1.03

RECOVERY CALCULATION

Method: ☐ Total Well Depth: 80% Recovery = [31.49 (Water Column)] x 0.20 + [86.11 (DTW Initial)] = 92.40 ft

☐ Max Drawdown (SD): 80% Recovery = ([ ] (DTW after purge) - [ ] (DTW Initial)) x 0.20 + [ ] (DTW Initial) = _____ ft

SAMPLING DATA

Date:	Time:	pH (if required):	D.O. (if required):	O.R.P. (if required):
4-03-14	10:20 am / pm			

Depth To Water Before Sampling (ft): 86.13

Notes:

Comments:

EARTH MANAGEMENT CO.
Environmental Remediation

FIELD DATA - GROUNDWATER PURGING & SAMPLING

Site: GOLDEN WEST REFINING - GW-4	Date: 4/3/2014
Address: 13116 IMPERIAL HWY, SANTA FE SPRINGS, CA 90670	Well ID#: AO-21
Personnel: LUIS GUARDADO	Weather: SUNNY

Purging Equipment:
☐ Bailer ☐ Diaphragm Pump ☐ Electric submersible ☐ Pneumatic submersible
☒ Disposable Bailer ☐ Vacuum Truck ☐ Extraction Pump ☐ Other

Sampling Equipment:
☒ Disposable Bailer
☐ Other

Monitoring Eq.: Water level instrument: KECK pH/Temp/Cond Meter: HANNA

Time of measurement:	7:03	Well casing dia. (in)	4"
Total Well Depth (ft):	116.37	Depth To Product (ft)	—
Depth To Water (ft):	102.44	Product Thickness (ft)	—
Water Column (ft):	13.93		

Purge Vol Calculation: ☒ Casing Vol. ☐ Borehole Vol. (SD)

Multipliers for purge volume estimation:

Well Dia	1"	2"	4"	6"	12"
3 Casing Vol	0.12	0.49	1.96	4.40	17.62
Borehole Vol	0.40	0.77	1.61	2.57	7.71

Note for borehole volume, add 1/3 BH vol for each subsequent passes

Estimated Purge Volume (gal): 13.93 (water column) × 1.96 (multiplier) = 27

PURGING DATA

Time (hh:mm)	Time (min)	Volume removed (gallons)	Temp °F or °C	pH	Cond µS	Turbidity	Observations
7:15	0	START PURGING	—	—	—	—	
7:22	7	7	19.2	7.2	1031	—	
7:29	7	7	19.3	7.1	1035	—	
7:36	7	7	19.5	7.1	1039	—	
7:42	6	6	19.6	7.0	1042	—	
	27						

DTW immed. after purge (ft): 105.10 *Actual purged volume (gal):* 27 *Avg Purge Rate (gpm):* 1.

RECOVERY CALCULATION

Method: ☒ Total Well Depth: 80% Recovery = [13.93 (Water Column)] x 0.20 + [102.44 (DTW initial)] = 105.22 ft

☐ Max Drawdown (SD): 80% Recovery = ([ ] (DTW after purge) - [ ] (DTW initial)) x 0.20 + [ ] (DTW initial) = _____ ft

SAMPLING DATA

Date:	Time:	pH (if required):	D.O. (if required):	O.R.P. (if required):
4.3.14	9:40 am/pm			

Depth To Water Before Sampling (ft): 102.45

Notes:

Comments:

EARTH MANAGEMENT CO.
Environmental Remediation

FIELD DATA - GROUNDWATER PURGING & SAMPLING

Site: GOLDEN WEST REFINING - GW-4	Date 4/3/2014
Address: 13116 IMPERIAL HWY, SANTA FE SPRINGS, CA 90670	Well ID# MW-2A
Personnel: MIGUEL OCEGUEDA	Weather Sunny

Purging Equipment:
☐ Bailer ☐ Diaphragm Pump ☐ Electric submersible ☐ Pneumatic submersible
☐ Disposable Bailer ☐ Vacuum Truck ☐ Extraction Pump ☐ Other

Sampling Equipment:
☐ Disposable Bailer
☐ Other

Monitoring Eq.: Water level instrument: pH/Temp/Cond Meter:

Time of measurement:	8:30	Well casing dia. (in)	4
Total Well Depth (ft):	99.11	Depth To Product (ft)	—
Depth To Water (ft):	DRY	Product Thickness (ft)	—
Water Column (ft):			

Multipliers for purge volume estimation:

Well Dia	1"	2"	4"	6"	12"
3 Casing Vol	0.12	0.49	1.96	4.40	17.62
Borehole Vol	0.40	0.77	1.61	2.57	7.71

Note for borehole volume, add 1/2 BH vol for each subsequent passes

Estimated Purge Volume (gal): x = (water column × multiplier)

Purge Vol Calculation: ☐ Casing Vol. ☐ Borehole Vol. (SD)

PURGING DATA

Time (hh:mm)	Time (min)	Volume removed (gallons)	Temp °F or °C	pH	Cond µS	Turbidity	Observations
	0	START PURGING	—	—	—	—	

DTW immed. after purge (ft): *Actual purged volume (gal):* *Avg Purge Rate (gpm):*

RECOVERY CALCULATION

Method: ☐ Total Well Depth: 80% Recovery = [ ] x 0.20 + [ ] = _____ ft (Water Column; DTW Initial)

☐ Max Drawdown (SD): 80% Recovery = ([ ] - [ ]) x 0.20 + [ ] = _____ ft (DTW after purge; DTW Initial; DTW Initial)

SAMPLING DATA

Date:	Time: am / pm	pH (if required):	D.O. (if required):	O.R.P. (if required):
Depth To Water Before Sampling (ft)	Notes:			

Comments:

EARTH MANAGEMENT CO.
Environmental Remediation

PROJECT S . ATUS REPORT

GW-3

SITE: GOLDEN WEST REFINING CO.
ADDRESS: 13116 IMPERIAL HWY..
SANTA FE SPRINGS, CA 90670
DATE: 4-02-14
PERSONNEL: R. Obando

WELL ID	DTP (FT)	DTW (FT)	DTB (FT)	PT (FT)	WC (FT)	DIA (IN)	PURGE (GAL) EST.	PURGE (GAL) ACT.	COMMENT
GAUGING ONLY									
PO-7						4			OS
GW-2						4			OS
AO-8						4			OS
PO-1						4			OS
GW-1						4			STREET
AO-7						4			OS
AO-9						4			OS
NW-3						4			OS
A-60						4			PUA
A-46A	—	80.62	89.99	—	—	4	—	—	PUA
A-29A	—	94.34	*	—	—	4	—	—	PUA
A-30A	—	92.92	*	—	—	4	—	—	PUA
AL-1	—	95.76	*	—	—	4	—	—	PUA
AL-2	—	95.03	*	—	—	4	—	—	PUA
AL-3	—	97.83	*	—	—	4	—	—	PUA
A-63						4			PUA
A-71						4			PUA
A-72						4			PUA
A-73						4			PUA
A-66	—	74.44	83.45	—	—	4	—	—	PUA
A-65	—	**	98.90	—	—	4	—	—	** Well Dries. [Broken Bolt 9/16] PUA
A-11A	60.35	60.70	69.15	0.35	—	4	—	2	PUA
A-37A	91.22	95.08	*	3.86	—	4	—	5	PUA
A-61	Film	85.21	93.10	—	—	4	—	—	PUA
A-64	—	91.00	*	—	—	4	—	—	PUA
A-62	59.35	59.37	71.10	0.02	—	4	—	1	PUA
A-67	83.37	83.77	89.70	0.40	—	4	—	3	PUA

FREE PRODUCT REMOVED: APPROX. 4.5 GALLONS
PURGE-WATER REMOVED: APPROX. 6.5 GALLONS

REMARKS: — monitoring wells and remove free Product. —
* DTB = > 100'. —

EXPLANATION:

REV: 9/16/2013

DTP= DEPTH TO PRODUCT, DTW= DEPTH TO WATER, DTB= DEPTH TO BOTTOM; ALL MEASURED FROM TOP OF CASING
PT= PRODUCT THICKNESS, WC= WATER COLUMN, DIA= DIAMETER, EST=ESTIMATE, ACT= ACTUAL, FT= FEET, GAL= GALLONS

GW-3

EARTH MANAGEMENT CO.
Environmental Remediation

PROJECT S . ATUS REPORT

SITE: GOLDEN WEST REFINING CO.
ADDRESS: 13116 IMPERIAL HWY.,
SANTA FE SPRINGS, CA 90670
DATE: 4-2-14
PERSONNEL: OSCAR ALVAREZ

WELL ID	DTP (FT)	DTW (FT)	DTB (FT)	PT (FT)	WC (FT)	DIA (IN)	PURGE (GAL) EST.	PURGE (GAL) ACT.	COMMENT
GAUGING ONLY									
STF-24	23.90	24.98	33.20	1.08	-	4	-	2	STF
TW-1	24.33	24.68	33.75	0.35	-	6	-	1	STF
OW-3	24.25	26.25	28.55	2.00	-	2	-	1	STF
P-12	24.26	26.32	29.30	2.06	-	4	-	2	STF
A-32E	72.38	73.38	85.88	1.	-	4	-	1	STF PUMP INSIDE
A-32	72.65	73.75	85.95	1.10	-	4	-	1	STF - " -
A-32W	73.20	73.77	81.30	0.57	-	4	-	1	STF - " -
STF-23	25.00	25.17	32.21	0.17	-	4	-	-	STF
STF-22	25.12	27.48	34.50	2.36	-	4	-	3	STF
STF-21	-	25.50	35.50	-	-	4	-	-	STF
STF-20	-	25.15	31.80	-	-	4	-	-	STF
STF-19	-	25.30	33.95	-	-	4	-	-	STF
STF-18	24.45	27.05	33.60	2.60	-	4	-	3	STF
STF-17	24.95	27.19	33.35	2.24	-	4	-	3	STF
STF-16	24.78	27.20	33.55	2.42	-	4	-	3	STF
STF-15	25.78	28.08	33.75	2.30	-	4	-	3	STF - " -
A-42	73.70	74.50	104.90	0.80	-	6	-	1	STF - " -
P-13	26.15	28.40	34.90	2.25	-	4	-	3	STF - " -
A-44	69.18	73.55	84.60	4.37	-	4	-	5	STF - " -
STF-2A						4			STF
STF-41A						4			STF
STF-42A						4			STF
P-9A						4			STF
STF-1A						4			STF
STF-3A						4			STF
P-2A						4			STF
STF-11B						4			STF

FREE PRODUCT REMOVED: APPROX. 33 GALLONS *PURGE-WATER REMOVED:* APPROX. — GALLONS

REMARKS: Well Monitoring and Remove free product and Gauging

EXPLANATION:

REV: 9/16/2013

DTP= DEPTH TO PRODUCT, DTW= DEPTH TO WATER, DTB= DEPTH TO BOTTOM; ALL MEASURED FROM TOP OF CASING
PT= PRODUCT THICKNESS, WC= WATER COLUMN, DIA= DIAMETER, EST=ESTIMATE, ACT= ACTUAL, FT= FEET, GAL= GALLONS

EARTH MANAGEMENT CO.
Environmental Remediation

PROJECT STATUS REPORT

GW-3

SITE: GOLDEN WEST REFINING CO.
ADDRESS: 13116 IMPERIAL HWY.,
SANTA FE SPRINGS, CA 90670
DATE: APRIL - 2 - 14
PERSONNEL: Armando Guardado

WELL ID	DTP (FT)	DTW (FT)	DTB (FT)	PT (FT)	WC (FT)	DIA (IN)	PURGE (GAL) EST.	PURGE (GAL) ACT.	COMMENT
GAUGING ONLY									
STF-24						4			STF
TW-1						6			STF
OW-3						2			STF
P-12						4			STF
A-32E						4			STF
A-32						4			STF
A-32W						4			STF
STF-23						4			STF
STF-22						4			STF
STF-21						4			STF
STF-20						4			STF
STF-19						4			STF
STF-18						4			STF
STF-17						4			STF
STF-16						4			STF
STF-15						4			STF
A-42						6			STF
P-13						4			STF
A-44						4			STF
STF-2A	28.95	29.25	29.74	0.30		4	-	1/2	STF
STF-41A	-	27.26	28.61	-	-	4	-	-	STF
STF-42A	-	26.82	28.55	-	-	4	-	-	STF
P-9A	23.18	23.40	29.14	0.22		4	-	2	STF
STF-1A	-	-	-	-	-	4	-	-	STF No Access Rollers on Top
STF-3A	21.86	23.53	24.91	1.67	-	4	.	3	STF
P-2A	22.82	24.93	26.33	2.11	-	4	.	3	STF
STF-11B	21.15	21.46	25.17	0.30	-	4		1	STF

FREE PRODUCT REMOVED: APPROX. 8 GALLONS | PURGE-WATER REMOVED: APPROX. 1 1/2 GALLONS

REMARKS: Well monitoring Free product Removal
GW-3 gaging wells

EXPLANATION:

REV: 9/16/2013

DTP= DEPTH TO PRODUCT, DTW= DEPTH TO WATER, DTB= DEPTH TO BOTTOM; ALL MEASURED FROM TOP OF CASING
PT= PRODUCT THICKNESS, WC= WATER COLUMN, DIA= DIAMETER, EST=ESTIMATE, ACT= ACTUAL, FT= FEET, GAL= GALLONS

EARTH MANAGEMENT CO.
Environmental Remediation

PROJECT S.ATUS REPORT

GW-3

SITE: GOLDEN WEST REFINING CO.
ADDRESS: 13116 IMPERIAL HWY..
SANTA FE SPRINGS, CA 90670
DATE: 4-2-14
PERSONNEL: Miguel Oceguedq

WELL ID	DTP (FT)	DTW (FT)	DTB (FT)	PT (FT)	WC (FT)	DIA (IN)	PURGE (GAL) EST.	PURGE (GAL) ACT.	COMMENT
GAUGING ONLY									
A-48						4			STF
P-10						4			STF
A-34						4			STF
A-35						4			STF
P-11						4			STF
STF-39	—	29.00	25.70	—	3.30	4	—	—	STF
OW-2	20.81	21.71	25.81	.90	4.10	2	—	1	STF
STF-38	20.37	20.40	27.81	.03	7.41	4	—	1	STF
P-1	20.20	27.22	32.87	7.02	5.65	4	—	8	STF
A-7	69.46	69.98	81.75	.52	11.77	4	—	1	STF pump inside
STF-12B	19.83	19.86	27.82	.03	7.96	4	—	1	STF
STF-37	19.76	22.53	28.75	2.77	6.22	4	—	5	STF
STF-36	19.96	25.43	29.00	5.47	3.57	4	—	8	STF
STF-35	20.70	21.27	24.80	.57	3.53	4	—	1	STF
STF-34	21.15	21.82	29.20	.67	7.38	4	—	1	STF pump inside
STF-33	—	21.73	29.73	—	8.00	4	—	—	STF pump inside
STF-32	—	21.74	31.87	—	10.13	4	—	—	STF
STF-31	20.91	24.60	29.91	3.69	5.31	4	—	8	STF
STF-30	22.04	22.18	32.38	.14	10.20	4	—	1	STF
STF-29	—	21.81	32.11	—	10.30	4	—	—	STF
STF-28	21.20	22.08	29.59	.88	7.51	4	—	2	STF
STF-27	—	21.77	28.18	—	6.41	4	—	—	STF
STF-26	22.22	22.83	30.15	.61	7.32	4	—	2	STF
STF-25	—	23.28	29.85	—	6.57	4	—	—	STF

FREE PRODUCT REMOVED: APPROX. 31 GALLONS
PURGE-WATER REMOVED: APPROX. 9 GALLONS

REMARKS: well monitoring and product removal

EXPLANATION:

REV: 9/16/2013

DTP= DEPTH TO PRODUCT, DTW= DEPTH TO WATER, DTB= DEPTH TO BOTTOM; ALL MEASURED FROM TOP OF CASING
PT= PRODUCT THICKNESS, WC= WATER COLUMN, DIA= DIAMETER, EST=ESTIMATE, ACT= ACTUAL, FT= FEET, GAL= GALLONS

EARTH MANAGEMENT CO.
Environmental Remediation

PROJECT STATUS REPORT

GW-3

SITE: GOLDEN WEST REFINING CO.
ADDRESS: 13116 IMPERIAL HWY.,
SANTA FE SPRINGS, CA 90670
DATE: April - 2 - 14
PERSONNEL: Armando Guardado

WELL ID	DTP (FT)	DTW (FT)	DTB (FT)	PT (FT)	WC (FT)	DIA (IN)	PURGE (GAL) EST.	PURGE (GAL) ACT.	COMMENT
GAUGING ONLY									
A-48	-	-	-	-	-	4	-	-	STF DO ACCESS CAR ON TOP
P-10	-	20.85	31.10	-	-	4	-	-	STF
A-34	-	88.28	-	-	-	4	-	-	STF bottom cannot gage its over 100' dip
A-35	-	71.53	80.52	-	-	4	-	-	STF
P-11	-	19.41	20.36	-	-	4	-	-	STF
STF-39						4			STF
OW-2						2			STF
STF-38						4			STF
P-1						4			STF
A-7						4			STF
STF-12B						4			STF
STF-37						4			STF
STF-36						4			STF
STF-35						4			STF
STF-34						4			STF
STF-33						4			STF
STF-32						4			STF
STF-31						4			STF
STF-30						4			STF
STF-29						4			STF
STF-28						4			STF
STF-27						4			STF
STF-26						4			STF
STF-25						4			STF

FREE PRODUCT REMOVED: APPROX. -0- GALLONS | *PURGE-WATER REMOVED:* APPROX. -0- GALLONS

REMARKS: Well Monitoring, Free product Removal and Anually GW-3 gaging wells

EXPLANATION:

REV: 9/16/2013

DTP= DEPTH TO PRODUCT, DTW= DEPTH TO WATER, DTB= DEPTH TO BOTTOM; ALL MEASURED FROM TOP OF CASING
PT= PRODUCT THICKNESS, WC= WATER COLUMN, DIA= DIAMETER, EST=ESTIMATE, ACT= ACTUAL, FT= FEET, GAL= GALLONS

EARTH MANAGEMENT CO.
Environmental Remediation

PROJECT S. ATUS REPORT

GW-3

SITE: GOLDEN WEST REFINING CO.
ADDRESS: 13116 IMPERIAL HWY..
SANTA FE SPRINGS, CA 90670
DATE: 4.2.14
PERSONNEL: MIS GUARDADO

WELL ID	DTP (FT)	DTW (FT)	DTB (FT)	PT (FT)	WC (FT)	DIA (IN)	PURGE (GAL) EST.	PURGE (GAL) ACT.	COMMENT
GAUGING ONLY									
A-56A		84.79	93.65			4			WTF
A-22A		81.22	87.72			4			WTF
A-24A		79.69	90.10			4			WTF
A-3A		82.11	88.27			4			WTF
A-25		7881	92.55			4			WTF
A-26A		78.74	89.50			4			WTF
P-6A		60.28	60.97			4			WTF
A-27A		73.20	83.75			4			WTF
P-4A		DRY	48.52			4			WTF
A-18A		71.22	75.20			4			WTF
A-8	65.71	65.80	76.25	.09		4		2	MA
A-6R		68.85	88.97			4			MA
A-43		76.38	102.07			6			MA
A-16R	68.07	70.20	79.22	2.13		4		4	MA
A-52		67.59	79.77			4			MA

FREE PRODUCT REMOVED: APPROX. 3 GALLONS
PURGE-WATER REMOVED: APPROX. 3 GALLONS

REMARKS: MONITORING WELLS. AND REMOVE FREE PRODUCT.

EXPLANATION:

REV: 9/16/2013

DTP= DEPTH TO PRODUCT, DTW= DEPTH TO WATER, DTB= DEPTH TO BOTTOM; ALL MEASURED FROM TOP OF CASING
PT= PRODUCT THICKNESS, WC= WATER COLUMN, DIA= DIAMETER, EST=ESTIMATE, ACT= ACTUAL, FT= FEET, GAL= GALLONS

GW-3

EARTH MANAGEMENT CO.
Environmental Remediation

PROJECT STATUS REPORT

SITE: GOLDEN WEST REFINING CO.
ADDRESS: 13116 IMPERIAL HWY.,
SANTA FE SPRINGS, CA 90670
DATE: 4-01-14
PERSONNEL: OSCAR ALVAREZ

WELL ID	DTP (FT)	DTW (FT)	DTB (FT)	PT (FT)	WC (FT)	DIA (IN)	PURGE (GAL) EST.	PURGE (GAL) ACT.	COMMENT	
GAUGING ONLY										
PO-7	-	36.35	50.30	-	-	4	-			OS
GW-2	-	94.58	101.00	-	-	4	-			OS
AO-8	84.15	84.19	113.50	0.04	-	4	-	2		OS
PO-1	-	36.25	38.50	-	-	4	-			OS
GW-1	-	78.62	97.70	-	-	4	-			STREET
AO-7	-	82.58	115.28	-	-	4	-			OS
AO-9	-	88.84	109.00	-	-	4	-			OS
NW-3	-	-	-	-	-	4	-		NO ACCESS	OS
A-60	-	108.65	115.30	-	-	4	-			PUA
A-46A						4				PUA
A-29A						4				PUA
A-30A						4				PUA
AL-1						4				PUA
AL-2						4				PUA
AL-3						4				PUA
A-63	-	76.80	82.70	-	-	4	-			PUA
A-71	82.18	83.97	92.02	1.79	-	4	-	2	PUMP IN SIDE	PUA
A-72	74.65	75.85	89.60	1.20	-	4	-	3	PUMP IN SIDE	PUA
A-73	65.55	65.70	75.50	0.15	-	4	-	-		PUA
A-66						4				PUA
A-65						4				PUA
A-11A						4				PUA
A-37A						4				PUA
A-61						4				PUA
A-64						4				PUA
A-62						4				PUA
A-67						4				PUA

FREE PRODUCT REMOVED: APPROX. 7 GALLONS | *PURGE-WATER REMOVED:* APPROX. — GALLONS

REMARKS: Well Monitoring and Remove Free product and Gauging

EXPLANATION:

REV: 9/16/2013

DTP= DEPTH TO PRODUCT, DTW= DEPTH TO WATER, DTB= DEPTH TO BOTTOM; ALL MEASURED FROM TOP OF CASING
PT= PRODUCT THICKNESS, WC= WATER COLUMN, DIA= DIAMETER, EST=ESTIMATE, ACT= ACTUAL, FT= FEET, GAL= GALLONS

GW-3

EARTH MANAGEMENT CO.
Environmental Remediation

PROJECT STATUS REPORT

SITE: GOLDEN WEST REFINING CO.
ADDRESS: 13116 IMPERIAL HWY.,
SANTA FE SPRINGS, CA 90670
DATE: 04/01/14
PERSONNEL: IOAN DAMSA

WELL ID	DTP (FT)	DTW (FT)	DTB (FT)	PT (FT)	WC (FT)	DIA (IN)	PURGE (GAL.) EST.	PURGE (GAL.) ACT.	COMMENT
GAUGING ONLY									
AO-18	—	68.22	94.12	—		4	—	—	OS
B-2	No access - is covered					4			OS
AO-2	—	70.48	90.36	—		4	—	—	OS
B-1	—	20.70	21.46	—		4	—	—	OS
CCW	—	21.83	25.57	—		8	—	—	OS
SFS-2	—	22.34	30.64	—		6	—	—	OS
PO-4	—	21.88	27.50	—		4	—	—	OS
B-10	—	22.64	35.42	—		4	—	—	OS
AO-14	64.32	74.48	—	10.16		4		10	STREET
PO-10	—	22.64	35.28	—		4	—	—	STREET
B-13	20.66	21.48	23.12	0.82		4		1	OS
AO-20	No access					4			OS
PO-19	No access					4			OS
B-3						4			OS
AO-6						4			OS
PO-8						4			STREET
AO-12						4			STREET
AO-16						4			STREET
B-15						4			OS
MYTNN						8			OS
B-16						4			OS
PO-11						4			STREET
PO-3						4			OS
AO-3						4			OS
PO-13						4			OS
PO-16						4			OS
PO-14						4			OS
PO-12						4			OS

FREE PRODUCT REMOVED: APPROX. 10 GALLONS | *PURGE-WATER REMOVED:* APPROX. 1 GALLONS

REMARKS: Site visit, wells monitored and product removed

EXPLANATION:

REV: 9/16/2013

DTP= DEPTH TO PRODUCT, DTW= DEPTH TO WATER, DTB= DEPTH TO BOTTOM; ALL MEASURED FROM TOP OF CASING
PT= PRODUCT THICKNESS, WC= WATER COLUMN, DIA= DIAMETER, EST=ESTIMATE, ACT= ACTUAL, FT= FEET, GAL= GALLONS

EARTH MANAGEMENT CO.
Environmental Remediation

PROJECT S.ATUS REPORT

GW-3

SITE: GOLDEN WEST REFINING CO.
ADDRESS: 13116 IMPERIAL HWY..
SANTA FE SPRINGS, CA 90670
DATE: APRIL 1-14
PERSONNEL: Armando Guardado

WELL ID	DTP (FT)	DTW (FT)	DTB (FT)	PT (FT)	WC (FT)	DIA (IN)	PURGE (GAL) EST.	PURGE (GAL) ACT.	COMMENT
GAUGING ONLY									
AO-18						4			OS
B-2						4			OS
AO-2						4			OS
B-1						4			OS
CCW						8			OS
SFS-2						6			OS
PO-4						4			OS
B-10						4			OS
AO-14						4			STREET
PO-10						4			STREET
B-13						4			OS
AO-20						4			OS
PO-19						4			OS
B-3	DRY	—	45.51	-	-	4	-	-	OS
AO-6	-	63.00	78.64	-	-	4	-	-	OS
PO-8	-	25.18	25.32	-	-	4	-	-	STREET
AO-12	-	58.15	92.50	-	-	4	-	-	STREET
AO-16	-	59.20	83.40	-	-	4	-	-	STREET
B-15	-	24.66	29.78	-	-	4	-	-	OS
MYTNN	24.08	24.23	24.60	0.15	-	8	1/2	1/2	OS
B-16	24.16	24.24	26.24	0.08	-	4	1/2	1/2	OS
PO-11	-	32.10	32.45	-	-	4	-	-	STREET
PO-3	DRY	—	30.40	-	-	4	-	-	OS
AO-3	-	66.34	90.00	-	-	4	-	-	OS
PO-13	-	45.04	45.18	-	-	4	-	-	OS
PO-16	24.24	24.26	33.95	0.02	-	4	1/2	1/2	OS
PO-14	-	34.04	37.60	-	-	4	-	-	OS
PO-12	-	36.28	40.10	-	-	4	-	-	OS

FREE PRODUCT REMOVED: APPROX. 1 1/2 GALLONS | *PURGE-WATER REMOVED:* APPROX. 1 1/2 GALLONS

REMARKS: ; well monitoring and Free product Removal

EXPLANATION:

REV: 9/16/2013

DTP= DEPTH TO PRODUCT, DTW= DEPTH TO WATER, DTB= DEPTH TO BOTTOM; ALL MEASURED FROM TOP OF CASING
PT= PRODUCT THICKNESS, WC= WATER COLUMN, DIA= DIAMETER, EST=ESTIMATE, ACT= ACTUAL, FT= FEET, GAL= GALLONS

EARTH MANAGEMENT CO.
Environmental Remediation

PROJECT STATUS REPORT

SITE: GW-4
ADDRESS: 13116 Imperial Hwy.
Santa Fe Springs, CA 90670

DATE: 4/3/2014

PERSONNEL: ARMANDO GUARDADO

WELL ID	DTP (FT)	DTW (FT)	DTB (FT)	PT (FT)	WC (FT)	DIA (IN)	PURGE (GAL) EST.	PURGE (GAL) ACT.	COMMENT
SEMI-ANNUALLY									
A-10A	62.56	63.00	73.83	0.44		4	–	2	
A-17R	-	65.41	80.21	-	14.81	4	29	20	
A-21A *	-	79.83	85.22	-	5.39	4	10	10	

FREE PRODUCT REMOVED: APPROX. 1/2 GALLONS

PURGE-WATER REMOVED: APPROX. 30 GALLONS

REMARKS: did not sample A10A because of 0.44 of product

SEMI-ANNUALLY GROUNDWATER SAMPLING

PURGED WATER WILL BE TREATED BY GW-9 (GWT) SYSTEM

*** (DUPLICATE FROM A-21A)**

EXPLANATION:

DTP= DEPTH TO PRODUCT, DTW= DEPTH TO WATER, DTB= DEPTH TO BOTTOM; ALL MEASURED FROM TOP OF CASING
PT= PRODUCT THICKNESS, WC= WATER COLUMN, DIA= DIAMETER, EST=ESTIMATE, ACT= ACTUAL, FT= FEET, GAL= GALLONS

REV: 9/20/2013

EARTH MANAGEMENT CO.
Environmental Remediation

PROJECT STATUS REPORT

SITE: GW-4
ADDRESS: 13116 Imperial Hwy.
Santa Fe Springs, CA 90670

DATE: 4/3/2014

PERSONNEL: MIGUEL OCEGUEDA

WELL ID	DTP (FT)	DTW (FT)	DTB (FT)	PT (FT)	WC (FT)	DIA (IN)	PURGE (GAL) EST.	PURGE (GAL) ACT.	COMMENT
SEMI-ANNUALLY									
MW-2A	—	DRY	99.11	—	—	4	—	—	
A-4A	—	74.99	87.75	—	12.76	4	25	25	
A-5A	—	71.64	79.65	—	8.01	4	16	16	

FREE PRODUCT REMOVED: APPROX. — GALLONS

PURGE-WATER REMOVED: APPROX. 41 GALLONS

REMARKS:

SEMI-ANNUALLY GROUNDWATER SAMPLING

PURGED WATER WILL BE TREATED BY GW-9 (GWT) SYSTEM

EXPLANATION:

REV: 9/20/2013

DTP= DEPTH TO PRODUCT, DTW= DEPTH TO WATER, DTB= DEPTH TO BOTTOM; ALL MEASURED FROM TOP OF CASING
PT= PRODUCT THICKNESS, WC= WATER COLUMN, DIA= DIAMETER, EST=ESTIMATE, ACT= ACTUAL, FT= FEET, GAL= GALLONS

EARTH MANAGEMENT CO.
Environmental Remediation

PROJECT STATUS REPORT

SITE: GW-4
ADDRESS: 13116 Imperial Hwy.
Santa Fe Springs, CA 90670

DATE: 4/3/2014

PERSONNEL: LUIS GUARDADO

WELL ID	DTP (FT)	DTW (FT)	DTB (FT)	PT (FT)	WC (FT)	DIA (IN)	PURGE (GAL) EST.	PURGE (GAL) ACT.	COMMENT
SEMI-ANNUALLY									
AO-21		102.44	116.37		13.93	4	27	27	
A-38A		101.45	119.25		17.80	4	35	35	
A-39A		104.75	115.13		10.38	4	20	20	

FREE PRODUCT REMOVED: APPROX. — GALLONS

PURGE-WATER REMOVED: APPROX. 82 GALLONS

REMARKS:

SEMI-ANNUALLY GROUNDWATER SAMPLING

PURGED WATER WILL BE TREATED BY GW-9 (GWT) SYSTEM

EXPLANATION:

REV: 9/20/2013

DTP= DEPTH TO PRODUCT, DTW= DEPTH TO WATER, DTB= DEPTH TO BOTTOM; ALL MEASURED FROM TOP OF CASING
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EARTH MANAGEMENT CO.
Environmental Remediation

PROJECT STATUS REPORT

SITE: GW-4
ADDRESS: 13116 Imperial Hwy.
Santa Fe Springs, CA 90670

DATE: 4/3/2014

PERSONNEL: ARTURO OBANDO

WELL ID	DTP (FT)	DTW (FT)	DTB (FT)	PT (FT)	WC (FT)	DIA (IN)	PURGE (GAL) EST.	PURGE (GAL) ACT.	COMMENT
SEMI-ANNUALLY									
AO-10		87.98	119.3		31.32	4	61	61	
AO-11		86.11	117.6		31.49	4	62	62	

FREE PRODUCT REMOVED: APPROX. 0 GALLONS

PURGE-WATER REMOVED: APPROX. 123 GALLONS

REMARKS:

SEMI-ANNUALLY GROUNDWATER SAMPLING

PURGED WATER WILL BE TREATED BY GW-9 (GWT) SYSTEM

EXPLANATION:

DTP= DEPTH TO PRODUCT, DTW= DEPTH TO WATER, DTB= DEPTH TO BOTTOM; ALL MEASURED FROM TOP OF CASING
PT= PRODUCT THICKNESS, WC= WATER COLUMN, DIA= DIAMETER, EST=ESTIMATE, ACT= ACTUAL, FT= FEET, GAL= GALLONS

REV: 9/20/2013

APPENDIX B

Associated Laboratories
806 N. Batavia - Orange, CA 92868
Tel (714)771-6900 Fax (714)538-1209
www.associatedlabs.com
info@associatedlabs.com

04232CA

Client: Golden West Refinery
Address: 13116 Imperial Hwy.
Santa Fe Springs, CA 90670

Attn: Simon Tregurtha

Comments: GW-4

Lab Request: 338886
Report Date: 04/14/2014
Date Received: 04/03/2014
Client ID: 11508

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
338886-001	GW-4 AO-10
338886-002	GW-4 AO-11
338886-003	GW-4 AO-21
338886-004	GW-4 A-38A
338886-005	GW-4 A-39A
338886-006	GW-4 A-17R
338886-007	GW-4 A-21A
338886-008	GW-4 A-4A
338886-009	GW-4 A-5A
338886-010	GW-4 C-SUMP
338886-011	GW-4 Duplicate
338886-012	GW-4 Trip Blank
338886-013	GW-4 Equipment Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Nina Prasad
President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 45 days from date reported.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Matrix: Water	**Client:** Golden West Refinery	**Collector:** Client
Sampled: 04/03/2014 10:50	**Site:**	
Sample #: 338886-001	**Client Sample #:** GW-4 AO-10	**Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8015 *NELAC*	**Prep Method:** EPA 3535A						**QCBatchID:**	QC1145490
TPH Diesel	ND	1	0.04	0.1	mg/L	04/08/14	lyt	

Analyte	% Recovery	Limits	Notes
Triacontane (SUR)	*135*	*60-140*	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8015 *NELAC*	**Prep Method:** EPA 5030B						**QCBatchID:**	QC1145415
TPH Gasoline	ND	1	6.6	50	ug/L	04/04/14	bbuilt	

Analyte	% Recovery	Limits	Notes
4-Bromofluorobenzene (SUR)	*119*	*60-140*	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8260 *NELAC*	**Prep Method:** EPA 5030B						**QCBatchID:**	QC1145440
Benzene	ND	1	0.18	1	ug/L	04/04/14	ryanp	
Di-isopropyl ether (DIPE)	ND	1	0.2	1	ug/L	04/04/14	ryanp	
Ethylbenzene	ND	1	0.21	5	ug/L	04/04/14	ryanp	
Ethyl-tertbutylether (ETBE)	ND	1	0.23	1	ug/L	04/04/14	ryanp	
Methyl-t-butyl Ether (MTBE)	ND	1	0.19	1	ug/L	04/04/14	ryanp	
t-Butyl alcohol (TBA)	ND	1	5.2	10	ug/L	04/04/14	ryanp	
Tert-amylmethylether (TAME)	ND	1	0.19	1	ug/L	04/04/14	ryanp	
Toluene	ND	1	0.24	5	ug/L	04/04/14	ryanp	
Xylenes (Total)	ND	1	0.45	5	ug/L	04/04/14	ryanp	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*118*	*70-145*	
4-Bromofluorobenzene (SUR)	*104*	*70-145*	
Dibromodifluoromethane (SUR)	*100*	*70-145*	
Toluene-d8 (SUR)	*100*	*70-145*	

Matrix: Water	**Client:** Golden West Refinery	**Collector:** Client
Sampled: 04/03/2014 11:20	**Site:**	
Sample #: 338886-002	**Client Sample #:** GW-4 AO-11	**Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8015 *NELAC*	**Prep Method:** EPA 3535A						**QCBatchID:** QC1145490	
TPH Diesel	ND	1	0.04	0.1	mg/L	04/08/14	lyt	

Analyte	% Recovery	Limits	Notes
Triacontane (SUR)	*105*	*60-140*	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8015 *NELAC*	**Prep Method:** EPA 5030B						**QCBatchID:** QC1145415	
TPH Gasoline	ND	1	6.6	50	ug/L	04/04/14	bbullt	

Analyte	% Recovery	Limits	Notes
4-Bromofluorobenzene (SUR)	*117*	*60-140*	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8260 *NELAC*	**Prep Method:** EPA 5030B						**QCBatchID:** QC1145440	
Benzene	ND	1	0.18	1	ug/L	04/04/14	ryanp	
Di-isopropyl ether (DIPE)	ND	1	0.2	1	ug/L	04/04/14	ryanp	
Ethylbenzene	ND	1	0.21	5	ug/L	04/04/14	ryanp	
Ethyl-tertbutylether (ETBE)	ND	1	0.23	1	ug/L	04/04/14	ryanp	
Methyl-t-butyl Ether (MTBE)	ND	1	0.19	1	ug/L	04/04/14	ryanp	
t-Butyl alcohol (TBA)	ND	1	5.2	10	ug/L	04/04/14	ryanp	
Tert-amylmethylether (TAME)	ND	1	0.19	1	ug/L	04/04/14	ryanp	
Toluene	ND	1	0.24	5	ug/L	04/04/14	ryanp	
Xylenes (Total)	ND	1	0.45	5	ug/L	04/04/14	ryanp	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*113*	*70-145*	
4-Bromofluorobenzene (SUR)	*105*	*70-145*	
Dibromodifluoromethane (SUR)	*96*	*70-145*	
Toluene-d8 (SUR)	*102*	*70-145*	

Matrix: Water	**Client:** Golden West Refinery	**Collector:** Client	
Sampled: 04/03/2014 09:40	**Site:**		
Sample #: 338886-003	**Client Sample #:** GW-4 AO-21	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8015 *NELAC*	**Prep Method: EPA 3535A**						**QCBatchID: QC1145490**	
TPH Diesel	ND	1	0.04	0.1	mg/L	04/08/14	lyt	

Analyte	% Recovery	Limits	Notes
Triacontane (SUR)	*115*	*60-140*	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8015 *NELAC*	**Prep Method: EPA 5030B**						**QCBatchID: QC1145415**	
TPH Gasoline	ND	1	6.6	50	ug/L	04/04/14	bbuilt	

Analyte	% Recovery	Limits	Notes
4-Bromofluorobenzene (SUR)	*116*	*60-140*	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8260 *NELAC*	**Prep Method: EPA 5030B**						**QCBatchID: QC1145440**	
Benzene	ND	1	0.18	1	ug/L	04/04/14	ryanp	
Di-isopropyl ether (DIPE)	ND	1	0.2	1	ug/L	04/04/14	ryanp	
Ethylbenzene	ND	1	0.21	5	ug/L	04/04/14	ryanp	
Ethyl-tertbutylether (ETBE)	ND	1	0.23	1	ug/L	04/04/14	ryanp	
Methyl-t-butyl Ether (MTBE)	ND	1	0.19	1	ug/L	04/04/14	ryanp	
t-Butyl alcohol (TBA)	ND	1	5.2	10	ug/L	04/04/14	ryanp	
Tert-amylmethylether (TAME)	ND	1	0.19	1	ug/L	04/04/14	ryanp	
Toluene	ND	1	0.24	5	ug/L	04/04/14	ryanp	
Xylenes (Total)	ND	1	0.45	5	ug/L	04/04/14	ryanp	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*115*	*70-145*	
4-Bromofluorobenzene (SUR)	*103*	*70-145*	
Dibromodifluoromethane (SUR)	*96*	*70-145*	
Toluene-d8 (SUR)	*101*	*70-145*	

Matrix: Water	**Client:** Golden West Refinery	**Collector:** Client
Sampled: 04/03/2014 10:39	**Site:**	
Sample #: 338886-004	**Client Sample #:** GW-4 A-38A	**Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8015 *NELAC*	**Prep Method:** EPA 3535A						**QCBatchID:** QC1145490	
TPH Diesel	ND	1	0.04	0.1	mg/L	04/08/14	lyt	

Analyte	% Recovery	Limits	Notes
Triaconitane (SUR)	*95*	*60-140*	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8015 *NELAC*	**Prep Method:** EPA 5030B						**QCBatchID:** QC1145415	
TPH Gasoline	ND	1	6.6	50	ug/L	04/04/14	bbuilt	

Analyte	% Recovery	Limits	Notes
4-Bromofluorobenzene (SUR)	*115*	*60-140*	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8260 *NELAC*	**Prep Method:** EPA 5030B						**QCBatchID:** QC1145440	
Benzene	ND	1	0.18	1	ug/L	04/04/14	ryanp	
Di-isopropyl ether (DIPE)	ND	1	0.2	1	ug/L	04/04/14	ryanp	
Ethylbenzene	ND	1	0.21	5	ug/L	04/04/14	ryanp	
Ethyl-tertbutylether (ETBE)	ND	1	0.23	1	ug/L	04/04/14	ryanp	
Methyl-t-butyl Ether (MTBE)	ND	1	0.19	1	ug/L	04/04/14	ryanp	
t-Butyl alcohol (TBA)	ND	1	5.2	10	ug/L	04/04/14	ryanp	
Tert-amylmethylether (TAME)	ND	1	0.19	1	ug/L	04/04/14	ryanp	
Toluene	ND	1	0.24	5	ug/L	04/04/14	ryanp	
Xylenes (Total)	ND	1	0.45	5	ug/L	04/04/14	ryanp	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*111*	*70-145*	
4-Bromofluorobenzene (SUR)	*108*	*70-145*	
Dibromodifluoromethane (SUR)	*94*	*70-145*	
Toluene-d8 (SUR)	*99*	*70-145*	

Matrix: Water	**Client:** Golden West Refinery		**Collector:** Client		
Sampled: 04/03/2014 11:27	**Site:**				
Sample #: 338886-005	**Client Sample #:** GW-4 A-39A		**Sample Type:**		

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8015 *NELAC*	**Prep Method:** EPA 3535A						**QCBatchID:** QC1145490	
TPH Diesel	ND	1	0.04	0.1	mg/L	04/09/14	lyt	

Analyte	% Recovery	Limits	Notes
Triacontane (SUR)	*70*	*60-140*	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8015 *NELAC*	**Prep Method:** EPA 5030B						**QCBatchID:** QC1145415	
TPH Gasoline	ND	1	6.6	50	ug/L	04/04/14	bbuilt	

Analyte	% Recovery	Limits	Notes
4-Bromofluorobenzene (SUR)	*113*	*60-140*	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8260 *NELAC*	**Prep Method:** EPA 5030B						**QCBatchID:** QC1145440	
Benzene	ND	1	0.18	1	ug/L	04/05/14	ryanp	
Di-isopropyl ether (DIPE)	ND	1	0.2	1	ug/L	04/05/14	ryanp	
Ethylbenzene	ND	1	0.21	5	ug/L	04/05/14	ryanp	
Ethyl-tertbutylether (ETBE)	ND	1	0.23	1	ug/L	04/05/14	ryanp	
Methyl-t-butyl Ether (MTBE)	ND	1	0.19	1	ug/L	04/05/14	ryanp	
t-Butyl alcohol (TBA)	ND	1	5.2	10	ug/L	04/05/14	ryanp	
Tert-amylmethylether (TAME)	ND	1	0.19	1	ug/L	04/05/14	ryanp	
Toluene	ND	1	0.24	5	ug/L	04/05/14	ryanp	
Xylenes (Total)	ND	1	0.45	5	ug/L	04/05/14	ryanp	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*112*	*70-145*	
4-Bromofluorobenzene (SUR)	*106*	*70-145*	
Dibromodifluoromethane (SUR)	*98*	*70-145*	
Toluene-d8 (SUR)	*100*	*70-145*	

Matrix: Water	**Client:** Golden West Refinery		**Collector:** Client		
Sampled: 04/03/2014 10:30	**Site:**				
Sample #: 338886-006	**Client Sample #:** GW-4 A-17R		**Sample Type:**		

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8015 *NELAC*	**Prep Method:** EPA 3535A						**QCBatchID:** QC1145490	
TPH Diesel	1.7	5	0.2	0.5	mg/L	04/09/14	lyt	

Analyte	% Recovery	Limits	Notes
Triacontane (SUR)	*110*	*60-140*	

Method: EPA 8015 *NELAC*	**Prep Method:** EPA 5030B						**QCBatchID:** QC1145415	
TPH Gasoline	**82200**	100	660	5000	ug/L	04/04/14	bbullt	

Analyte	% Recovery	Limits	Notes
4-Bromofluorobenzene (SUR)	*127*	*60-140*	

Method: EPA 8260 *NELAC*	**Prep Method:** EPA 5030B						**QCBatchID:** QC1145440	
Benzene	**24000**	200	36	200	ug/L	04/07/14	ryanp	
Di-isopropyl ether (DIPE)	ND	100	20	100	ug/L	04/05/14	ryanp	
Ethylbenzene	**1800**	100	21	500	ug/L	04/05/14	ryanp	
Ethyl-tertbutylether (ETBE)	ND	100	23	100	ug/L	04/05/14	ryanp	
Methyl-t-butyl Ether (MTBE)	**17000**	100	19	100	ug/L	04/05/14	ryanp	
t-Butyl alcohol (TBA)	**12000**	100	520	1000	ug/L	04/05/14	ryanp	
Tert-amylmethylether (TAME)	ND	100	19	100	ug/L	04/05/14	ryanp	
Toluene	**4700**	100	24	500	ug/L	04/05/14	ryanp	
Xylenes (Total)	**6100**	100	45	500	ug/L	04/05/14	ryanp	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*82*	*70-145*	
4-Bromofluorobenzene (SUR)	*103*	*70-145*	
Dibromodifluoromethane (SUR)	*98*	*70-145*	
Toluene-d8 (SUR)	*100*	*70-145*	

Matrix: Water	**Client:** Golden West Refinery	**Collector:** Client
Sampled: 04/03/2014 09:50	**Site:**	
Sample #: 338886-007	**Client Sample #:** GW-4 A-21A	**Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8015 *NELAC*	**Prep Method:** EPA 3535A						**QCBatchID:** QC1145490	
TPH Diesel	**0.62**	2	0.08	0.2	mg/L	04/09/14	lyt	

Analyte	% Recovery	Limits	Notes
Triacontane (SUR)	*75*	*60-140*	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8015 *NELAC*	**Prep Method:** EPA 5030B						**QCBatchID:** QC1145415	
TPH Gasoline	**26000**	20	132	1000	ug/L	04/04/14	bbuilt	

Analyte	% Recovery	Limits	Notes
4-Bromofluorobenzene (SUR)	*108*	*60-140*	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8260 *NELAC*	**Prep Method:** EPA 5030B						**QCBatchID:** QC1145440	
Benzene	4800	20	3.6	20	ug/L	04/05/14	ryanp	
Di-isopropyl ether (DIPE)	ND	20	4	20	ug/L	04/05/14	ryanp	
Ethylbenzene	**1100**	20	4.2	100	ug/L	04/05/14	ryanp	
Ethyl-tertbutylether (ETBE)	ND	20	4.6	20	ug/L	04/05/14	ryanp	
Methyl-t-butyl Ether (MTBE)	1200	20	3.8	20	ug/L	04/05/14	ryanp	
t-Butyl alcohol (TBA)	**870**	20	104	200	ug/L	04/05/14	ryanp	
Tert-amylmethylether (TAME)	ND	20	3.8	20	ug/L	04/05/14	ryanp	
Toluene	ND	20	4.8	100	ug/L	04/05/14	ryanp	
Xylenes (Total)	**3500**	20	9	100	ug/L	04/05/14	ryanp	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*85*	*70-145*	
4-Bromofluorobenzene (SUR)	*101*	*70-145*	
Dibromodifluoromethane (SUR)	*102*	*70-145*	
Toluene-d8 (SUR)	*98*	*70-145*	

Matrix: Water	**Client:** Golden West Refinery	**Collector:** Client
Sampled: 04/03/2014 09:35	**Site:**	
Sample #: 338886-008	**Client Sample #:** GW-4 A-4A	**Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8015 *NELAC*	**Prep Method:** EPA 3535A						**QCBatchID:**	QC1145490
TPH Diesel	ND	1	0.04	0.1	mg/L	04/09/14	lyt	

Analyte	% Recovery	Limits	Notes
Triacontane (SUR)	*90*	*60-140*	

Method: EPA 8015 *NELAC*	**Prep Method:** EPA 5030B						**QCBatchID:**	QC1145415
TPH Gasoline	ND	1	6.6	50	ug/L	04/04/14	bbuilt	

Analyte	% Recovery	Limits	Notes
4-Bromofluorobenzene (SUR)	*109*	*60-140*	

Method: EPA 8260 *NELAC*	**Prep Method:** EPA 5030B						**QCBatchID:**	QC1145440
Benzene	ND	1	0.18	1	ug/L	04/05/14	ryanp	
Di-isopropyl ether (DIPE)	ND	1	0.2	1	ug/L	04/05/14	ryanp	
Ethylbenzene	ND	1	0.21	5	ug/L	04/05/14	ryanp	
Ethyl-tertbutylether (ETBE)	ND	1	0.23	1	ug/L	04/05/14	ryanp	
Methyl-t-butyl Ether (MTBE)	ND	1	0.19	1	ug/L	04/05/14	ryanp	
t-Butyl alcohol (TBA)	ND	1	5.2	10	ug/L	04/05/14	ryanp	
Tert-amylmethylether (TAME)	ND	1	0.19	1	ug/L	04/05/14	ryanp	
Toluene	ND	1	0.24	5	ug/L	04/05/14	ryanp	
Xylenes (Total)	ND	1	0.45	5	ug/L	04/05/14	ryanp	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*115*	*70-145*	
4-Bromofluorobenzene (SUR)	*107*	*70-145*	
Dibromodifluoromethane (SUR)	*95*	*70-145*	
Toluene-d8 (SUR)	*98*	*70-145*	

Matrix: Water	**Client:** Golden West Refinery	**Collector:** Client
Sampled: 04/03/2014 09:20	**Site:**	
Sample #: 338886-009	**Client Sample #:** GW-4 A-5A	**Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8015 *NELAC*	**Prep Method:** EPA 3535A						**QCBatchID:** QC1145490	
TPH Diesel	ND	1	0.04	0.1	mg/L	04/09/14	lyt	

Analyte	% Recovery	Limits	Notes
Triacontane (SUR)	*90*	*60-140*	

Method: EPA 8015 *NELAC*	**Prep Method:** EPA 5030B						**QCBatchID:** QC1145415	
TPH Gasoline	ND	1	6.6	50	ug/L	04/04/14	bbuilt	

Analyte	% Recovery	Limits	Notes
4-Bromofluorobenzene (SUR)	*114*	*60-140*	

Method: EPA 8260 *NELAC*	**Prep Method:** EPA 5030B						**QCBatchID:** QC1145440	
Benzene	ND	1	0.18	1	ug/L	04/05/14	ryanp	
Di-isopropyl ether (DIPE)	ND	1	0.2	1	ug/L	04/05/14	ryanp	
Ethylbenzene	ND	1	0.21	5	ug/L	04/05/14	ryanp	
Ethyl-tertbutylether (ETBE)	ND	1	0.23	1	ug/L	04/05/14	ryanp	
Methyl-t-butyl Ether (MTBE)	ND	1	0.19	1	ug/L	04/05/14	ryanp	
t-Butyl alcohol (TBA)	ND	1	5.2	10	ug/L	04/05/14	ryanp	
Tert-amylmethylether (TAME)	ND	1	0.19	1	ug/L	04/05/14	ryanp	
Toluene	ND	1	0.24	5	ug/L	04/05/14	ryanp	
Xylenes (Total)	ND	1	0.45	5	ug/L	04/05/14	ryanp	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*113*	*70-145*	
4-Bromofluorobenzene (SUR)	*103*	*70-145*	
Dibromodifluoromethane (SUR)	*95*	*70-145*	
Toluene-d8 (SUR)	*101*	*70-145*	

Matrix: Water	**Client:** Golden West Refinery	**Collector:** Client
Sampled: 04/03/2014 12:00	**Site:**	
Sample #: 338886-010	**Client Sample #:** GW-4 C-SUMP	**Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8015 *NELAC*	**Prep Method:** EPA 3535A						**QCBatchID:** QC1145490	
TPH Diesel	**25**	20	0.8	2	mg/L	04/09/14	lyt	

Analyte	% Recovery	Limits	Notes
Triacontane (SUR)	*430*	*60-140*	*S*

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8015 *NELAC*	**Prep Method:** EPA 5030B						**QCBatchID:** QC1145415	
TPH Gasoline	**85500**	100	660	5000	ug/L	04/04/14	bbuilt	

Analyte	% Recovery	Limits	Notes
4-Bromofluorobenzene (SUR)	*117*	*60-140*	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8260 *NELAC*	**Prep Method:** EPA 5030B						**QCBatchID:** QC1145440	
Benzene	**2900**	100	18	100	ug/L	04/05/14	ryanp	
Di-isopropyl ether (DIPE)	ND	100	20	100	ug/L	04/05/14	ryanp	
Ethylbenzene	**2900**	100	21	500	ug/L	04/05/14	ryanp	
Ethyl-tertbutylether (ETBE)	ND	100	23	100	ug/L	04/05/14	ryanp	
Methyl-t-butyl Ether (MTBE)	ND	100	19	100	ug/L	04/05/14	ryanp	
t-Butyl alcohol (TBA)	ND	100	520	1000	ug/L	04/05/14	ryanp	
Tert-amylmethylether (TAME)	ND	100	19	100	ug/L	04/05/14	ryanp	
Toluene	**8200**	100	24	500	ug/L	04/05/14	ryanp	
Xylenes (Total)	**22000**	100	45	500	ug/L	04/05/14	ryanp	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*106*	*70-145*	
4-Bromofluorobenzene (SUR)	*95*	*70-145*	
Dibromodifluoromethane (SUR)	*95*	*70-145*	
Toluene-d8 (SUR)	*102*	*70-145*	

Matrix: Water	**Client:** Golden West Refinery	**Collector:** Client	
Sampled: 04/03/2014 09:50	**Site:**		
Sample #: 338886-011	**Client Sample #:** GW-4 Duplicate	**Sample Type:**	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8015 *NELAC*	**Prep Method:** EPA 3535A						**QCBatchID:** QC1145490	
TPH Diesel	**0.59**	2	0.08	0.2	mg/L	04/09/14	lyt	

Analyte	% Recovery	Limits	Notes
Triacontane (SUR)	*70*	*60-140*	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8015 *NELAC*	**Prep Method:** EPA 5030B						**QCBatchID:** QC1145415	
TPH Gasoline	**23800**	20	132	1000	ug/L	04/04/14	bbuilt	

Analyte	% Recovery	Limits	Notes
4-Bromofluorobenzene (SUR)	*109*	*60-140*	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8260 *NELAC*	**Prep Method:** EPA 5030B						**QCBatchID:** QC1145440	
Benzene	**4800**	20	3.6	20	ug/L	04/05/14	ryanp	
Di-Isopropyl ether (DIPE)	ND	20	4	20	ug/L	04/05/14	ryanp	
Ethylbenzene	**1200**	20	4.2	100	ug/L	04/05/14	ryanp	
Ethyl-tertbutylether (ETBE)	ND	20	4.6	20	ug/L	04/05/14	ryanp	
Methyl-t-butyl Ether (MTBE)	**1200**	20	3.8	20	ug/L	04/05/14	ryanp	
t-Butyl alcohol (TBA)	**770**	20	104	200	ug/L	04/05/14	ryanp	
Tert-amylmethylether (TAME)	ND	20	3.8	20	ug/L	04/05/14	ryanp	
Toluene	ND	20	4.8	100	ug/L	04/05/14	ryanp	
Xylenes (Total)	**3700**	20	9	100	ug/L	04/05/14	ryanp	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*81*	*70-145*	
4-Bromofluorobenzene (SUR)	*103*	*70-145*	
Dibromodifluoromethane (SUR)	*100*	*70-145*	
Toluene-d8 (SUR)	*103*	*70-145*	

Matrix: Water	**Client:** Golden West Refinery	**Collector:** Client
Sampled: 04/03/2014 06:30	**Site:**	
Sample #: 338886-012	**Client Sample #:** GW-4 Trip Blank	**Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8260 *NELAC*	Prep Method: EPA 5030B						QCBatchID: QC1145440	
Benzene	ND	1	0.18	1	ug/L	04/05/14	ryanp	
Di-isopropyl ether (DIPE)	ND	1	0.2	1	ug/L	04/05/14	ryanp	
Ethylbenzene	ND	1	0.21	5	ug/L	04/05/14	ryanp	
Ethyl-tertbutylether (ETBE)	ND	1	0.23	1	ug/L	04/05/14	ryanp	
Methyl-t-butyl Ether (MTBE)	ND	1	0.19	1	ug/L	04/05/14	ryanp	
t-Butyl alcohol (TBA)	ND	1	5.2	10	ug/L	04/05/14	ryanp	
Tert-amylmethylether (TAME)	ND	1	0.19	1	ug/L	04/05/14	ryanp	
Toluene	ND	1	0.24	5	ug/L	04/05/14	ryanp	
Xylenes (Total)	ND	1	0.45	5	ug/L	04/05/14	ryanp	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*114*	*70-145*	
4-Bromofluorobenzene (SUR)	*107*	*70-145*	
Dibromodifluoromethane (SUR)	*97*	*70-145*	
Toluene-d8 (SUR)	*99*	*70-145*	

Matrix: Water	**Client:** Golden West Refinery	**Collector:** Client
Sampled: 04/03/2014 06:30	**Site:**	
Sample #: 338886-013	**Client Sample #:** GW-4 Equipment Blank	**Sample Type:**

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 8260 *NELAC*	**Prep Method: EPA 5030B**						**QCBatchID: QC1145440**	
Benzene	ND	1	0.18	1	ug/L	04/05/14	ryanp	
Di-Isopropyl ether (DIPE)	ND	1	0.2	1	ug/L	04/05/14	ryanp	
Ethylbenzene	ND	1	0.21	5	ug/L	04/05/14	ryanp	
Ethyl-tertbutylether (ETBE)	ND	1	0.23	1	ug/L	04/05/14	ryanp	
Methyl-t-butyl Ether (MTBE)	ND	1	0.19	1	ug/L	04/05/14	ryanp	
t-Butyl alcohol (TBA)	ND	1	5.2	10	ug/L	04/05/14	ryanp	
Tert-amylmethylether (TAME)	ND	1	0.19	1	ug/L	04/05/14	ryanp	
Toluene	ND	1	0.24	5	ug/L	04/05/14	ryanp	
Xylenes (Total)	ND	1	0.45	5	ug/L	04/05/14	ryanp	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	*110*	*70-145*	
4-Bromofluorobenzene (SUR)	*101*	*70-145*	
Dibromodifluoromethane (SUR)	*93*	*70-145*	
Toluene-d8 (SUR)	*103*	*70-145*	

QCBatchID: QC1145415	Analyst: bbuilt	Method: EPA 8015B
Matrix: Water	Analyzed: 04/04/2014	Instrument: VOA-GC (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1145415MB1					
TPH Gasoline	ND	ug/L		50	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1145415LCS1, QC1145415LCSD1											
TPH Gasoline	500	500	502	507	ug/L	100	101	1	70-130	30	

QCBatchID: QC1145440	Analyst: ryanp	Method: EPA 8260B
Matrix: Water	Analyzed: 04/07/2014	Instrument: VOA-MS (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1145440MB1					
1,1-Dichloroethene	ND	ug/L		5	
Benzene	ND	ug/L		1	
Chlorobenzene	ND	ug/L		5	
Ethylbenzene	ND	ug/L		5	
Methyl-t-butyl Ether (MTBE)	ND	ug/L		1	
Toluene	ND	ug/L		5	
Trichloroethene	ND	ug/L		5	
Xylenes (Total)	ND	ug/L		5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1145440LCS1											
1,1-Dichloroethene	50		57		ug/L	114			59-172		
Benzene	50		58		ug/L	116			62-137		
Chlorobenzene	50		56		ug/L	112			60-133		
Methyl-t-butyl Ether (MTBE)	50		53		ug/L	106			62-137		
Toluene	50		55		ug/L	110			59-139		
Trichloroethene	50		55		ug/L	110			66-142		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1145440MS1, QC1145440MSD1												Source: 338886-001
1,1-Dichloroethene	ND	50	50	54	53	ug/L	108	106	1.9	59-172	22	
Benzene	ND	50	50	57	56	ug/L	114	112	1.8	62-137	24	
Chlorobenzene	ND	50	50	55	54	ug/L	110	108	1.8	60-133	24	
Methyl-t-butyl Ether (MTBE)	ND	50	50	54	54	ug/L	108	108	0.0	62-137	21	
Toluene	ND	50	50	55	52	ug/L	110	104	5.6	59-139	21	
Trichloroethene	ND	50	50	52	49	ug/L	104	98	5.9	66-142	21	

QCBatchID: QC1145490	Analyst: lytagas	Method: EPA 8015B
Matrix: Water	Analyzed: 04/08/2014	Instrument: SVOA-GC (group)

Blank Summary

Analyte	Blank Result	Units		RDL	Notes
QC1145490MB1					
TPH (C10 to C22)	ND	mg/L		0.2	
TPH (C22 to C36)	ND	mg/L		0.3	
TPH (C6 to C10)	ND	mg/L		0.2	
TPH Diesel	ND	mg/L		0.1	

Lab Control Spike/Lab Control Spike Duplicate Summary

Analyte	Spike Amount LCS	Spike Amount LCSD	Spike Result LCS	Spike Result LCSD	Units	Recoveries LCS	Recoveries LCSD	RPD	Limits %Rec	Limits RPD	Notes
QC1145490LCS1											
TPH Diesel	1		0.68		mg/L	68			57-122		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount MS	Spike Amount MSD	Spike Result MS	Spike Result MSD	Units	Recoveries MS	Recoveries MSD	RPD	Limits %Rec	Limits RPD	Notes
QC1145490MS1, QC1145490MSD1												Source: 338803-008
TPH Diesel	0.50	1	1	1.1	1.6	mg/L	60	110	37.0	57-122	30	M

Notes and Definitions

B	Analyte was present in an associated method blank. Associated sample data was reported with qualifier.
BQ1	No valid test replicates. Result may be greater. Best result was reported with qualifier. Sample toxicity possible.
BQ2	No valid test replicates.
BQ3	Minimum DO is less than 1.0 mg/L. Result may be greater and reported with qualifier.
C	Laboratory Contamination..
D	The sample duplicate RPD was not within control limits, the sample data was reported without further clarification.
DF	Dilution Factor
DW	Sample result is calculated on a dry weigh basis
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
MDL	Method Detection Limit
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
ND	Analyte was not detected or was less than the detection limit.
P	Sample was received without proper preservation according to EPA guidelines.
Q1	Analyte Calibration Verification exceeds criteria and the result was reported with qualifier.
Q2	Analyte calibration was not verified and the result was estimated and reported with qualifier.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated and reported with qualifier.
Q4	Analyte result out of calibration range and was reported with qualifier
RDL	Reporting Detection Limit
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
T	Sample was extracted/analyzed past the holding time.
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
TIC	Tentatively Identified Compounds

ASSOCIATED LABORATORIES
806 North Batavia – Orange, California 92868 – 714-771-6900 FAX 714-538-1209

SAMPLE ACCEPTANCE CHECKLIST

Section 1
Client: GWR
Date Received: 4-3-14
Sample temperature:
Sample(s) received in cooler: Yes No (Skip Section 2)
Shipping Information: ME 4-14-14 ~~airbags~~

Project:
Sampler's Name: Yes No

Section 2 M.E. 4-14-14
Was the cooler packed with: ✓ Ice ___ Ice Packs ___ Bubble Wrap ___ Styrofoam ___ Paper ___ None ___ Other
Cooler Temperature: 2.0C

(Acceptance range is 0 to 6 Deg. C. or arrival on ice; For Microbiology sample ≤10 Deg. C or arrival on ice)

Section 3	YES	NO	N/A
Was a COC received?	✓		
Is it properly completed? (IDs, sampling date and time, signature, test)	✓		
Were custody seals present?		✓	
If Yes – were they intact?			✓
Were all samples sealed in plastic bags?	✓		
Did all samples arrive intact? If no, indicate below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were correct containers used for the tests required?	✓		
Was a sufficient amount of sample sent for tests indicated?	✓		4/4/14
Was there headspace in VOA vials?		✓	✓ ME
Were the containers labeled with correct preservatives?	✓		✓ ME
Was total residual chlorine measured (Fish Bioassay samples only)? *			✓

*: If the answer is no, please inform Fish Bioassay Dept. immediately.

Section 4
Explanations/Comments

Section 5
Was Project Manager notified of discrepancies: Y / N N/A
Project Manager's response:

Completed By: M. Eckert Date: 4/3/14

ASSOCIATED LABORATORIES
806 North Batavia ▪ Orange, CA 92868
Phone: (714) 771-6900 ▪ Fax: (714) 538-1209

Chain of Custody Record

Lab Job No. 528886.V
Page 1 of 1

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: GOLDEN WEST REFINING	PROJECT NAME: SEMI-ANNUALLY SAMPLING
SEND REPORT TO: SIMON TREGURTHA	NUMBER: GW-4
EMAIL:	ADDRESS: 13116 Imperial Hwy
ADDRESS: 13116 Imperial Hwy.	SANTA FE SPRINGS, CA 90670
SANTA FE SPRINGS, CA 90670	P.O. #:
PHONE: (562) 921-3581 FAX: (562) 921-7510	SAMPLED BY: ROBERT PANAITESCU

REQUIRED TURN AROUND TIME: Standard: ✓
72 Hours: ____ 48 Hours: ____ 24 Hours: ____

	Sample ID	Date	Time	Matrix	Container Number/Size	Pres.	8015 G	8015 D	BTEX + OXY (8260B)							Test Instructions & Comments
1	AO-10	4/3/14	10:50	H_2O	4 VOA + 1 Amber	HCL	X	X	X							
2	AO-11	↓	11:20	↓	↓	↓	X	X	X							
3	AO-21		9:40				X	X	X							
4	A-38A		10:39				X	X	X							
5	A-39A		11:27				X	X	X							
6	~~A-10A~~						~~X~~	~~X~~	~~X~~							
7	A-17R		10:30				X	X	X							
8	A-21A		9:50				X	X	X							
9	~~HW-2A~~						~~X~~	~~X~~	~~X~~							
10	A-4A		9:35				X	X	X							
11	A-5A		9:20				X	X	X							
12	C-SUMP		12:00				X	X	X							
13	DUPLICATE		9:50		↓		X	X	X							
14	TRIP BLANK		6:30		3 VOA		–	–	X							
15	EQUIP. BLANK	↓	6:30	↓	3 VOA	↓	–	–	X							

Total No. of Samples: Method of Shipment: Preservative: 1= Ice 2 =HCl 3 =HNO_3 4 =H_2SO_4 5 =NaOH 6 =Other

	1.	1.	2.	2.	3.	3.
Relinquished by / Received By:	EMCS	LOCKED FRIDGE	LOCKED FRIDGE	AGI	AGI	
Signature:	[signature]			[signature]	[signature]	[signature]
Printed Name:	ROBERT PANAITESCU			[signature]	[signature]	
Date:	04/03/14	04/03/14		4/3/14	4/3/14	4/3/14
Time:	12:30	12:30		1430	1630	17:30

Distribution: White - Laboratory Canary - Laboratory Pink - Project/Account Manager Goldenrod - Sampler/Originator

EXHIBIT 16

CALIFORNIA
Water Boards

EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIQUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

Los Angeles Regional Water Quality Control Board

1.142370
RECEIVED
JUN 30 2014 FILE
ENVIRONMENTAL
SSET GWRC

June 26, 2014

Mr. Chris Panaitescu
Golden West Refining Company
13116 Imperial Highway
Santa Fe Springs, CA 90670

Certified Mail
Return Receipt Requested
Claim No. 7001 0360 0000 3649 3392

Mr. Brad Rogers, PE
Team Lead, Refining Business Unit
Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583

Certified Mail
Return Receipt Requested
Claim No. 7001 0360 0000 3649 3408

SUBJECT: REQUIREMENT FOR TECHNICAL REPORTS PURSUANT TO CALIFORNIA WATER CODE SECTION 13267 ORDER NO. R4-2013-0116

SITE: GOLDEN WEST REFINERY, 13539 FOSTER ROAD, SANTA FE SPRINGS, CALIFORNIA SITE CLEANUP PROGRAM NO. 0227A, SITE ID NO. 2040073

Dear Messrs. Panaitescu and Rogers:

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) is the public agency with primary responsibility for the protection of groundwater and surface water quality for all beneficial uses within major portions of Los Angeles and Ventura counties, including the referenced site.

The Regional Board is providing regulatory oversight for the assessment and cleanup of contamination at the former Golden West Refinery site. We have determined that, to protect the beneficial use of the waters beneath the site, additional work is required.

Enclosed is a California Regional Board Order No. R4-2013-0116, pursuant to California Water Code section 13267 requiring you to develop the technical plans and to conduct the work.

If you have any questions, please contact Site Cleanup Program manager, Dr. Arthur Heath at (213) 576-6725 or project manager Mr. Adnan Siddiqui at (213) 576-6812 (asiddiqui@waterboards.ca.gov).

Sincerely,

for Paula Rasmussen
Samuel Unger, P.E.
Executive Officer

Enclosure: CWC 13267 Order No. R4-2013-0116

CC: Katherine Baylor, USEPA (via e-mail)
Simon Tregurtha, Golden West (via e-mail)
Paul Permienter, The Source Group, Inc. (via e-mail)

ORDER TO PROVIDE TECHNICAL REPORTS
CALIFORNIA WATER CODE SECTION 13267 ORDER NO. R4-2013-0116
DIRECTED TO GOLDEN WEST REFINING COMPANY AND CHEVRON

GOLDEN WEST REFINERY
13539 FOSTER ROAD, SANTA FE SPRINGS, CALIFORNIA
SITE CLEANUP PROGRAM NO. 0227A, SITE ID NO. 2040073

The California Regional Water Quality Control Board, Los Angeles Region (Regional Board) makes the following findings and issues this Order pursuant to California Water Code section 13267.

1. The Golden West Refinery is a former refinery and petroleum storage facility located at 13539 Foster Road in Santa Fe Springs, California (Site). From the 1920s to 1997, Golden West Refining Company (Golden West) and its predecessors owned the Site and conducted refining, blending and storage of crude oil and finished products at the Site. The Site encompasses approximately 269 acres and was divided into four areas based on the refinery operations. The Processing Unit Area was mainly used for refining crude oil into various products including fuel oil, diesel, and gasoline. The South Tank Farm and West Tank Farm were used for storage and blending of crude oil, intermediate products and finished products. Loading and inventory of finished products took place in the Marketing Area. The Site is now completely redeveloped into a business park for commercial and industrial use. Due to the historical use of the Site, soil and groundwater underlying the Site are impacted by petroleum hydrocarbons including light non-aqueous phase liquid (LNAPL) and volatile organic compounds (VOCs) that have extended to offsite areas. Prior to its acquisition by Golden West in 1983, the refinery was owned and operated by Gulf Oil Corporation. In 1984, Gulf Oil Corporation was acquired by Chevron.

2. The Site has been the subject of several cleanup and abatement orders (CAO) issued by the Regional Board. The most recent CAO, Order No. R4-2004-0020, was issued to Golden West on August 24, 2004. The 2004 CAO requires Golden West to assess, monitor, and cleanup and abate the effects of petroleum hydrocarbons and other contaminants of concern discharged to soil and groundwater at the Site. Additional findings by the Regional Board regarding the Site, operations at the Site, and discharges of waste at the Site are included in the 2004 CAO.

3. The Site is located in the Central Basin of the Los Angeles Coastal Plain. As set forth in the Water Quality Control Plan for the Los Angeles Region (Basin Plan), which was adopted on June 13, 1994, and amended from time to time, the designated beneficial uses for groundwater in the Central Basin include municipal and domestic drinking water supply (MUN), Industrial Service Supply (IND), Industrial Process Supply (PROC) and Agricultural Supply (AGR).

4. Data collected at the site since the 1980s and submitted to the Regional Board in technical and monitoring reports confirms that operations at the site resulted in the discharge of wastes to soil and groundwater. Evidence that is available in the files of the Regional Board for Site No. SCP 0227A show the presence of an LNAPL plume in both the shallow Semi-Perched Aquifer and

the deeper Artesia Aquifer under the Site. The LNAPL plume in the Semi-Perched Aquifer extends off-site to the south approximately 3,000 feet[1]. There are also dissolved phase groundwater plumes present in the Semi-Perched Aquifer and Artesia Aquifer, which have migrated off-site. The analytical results from groundwater monitoring confirm that petroleum hydrocarbons, VOCs and methyl-tertiary-butyl ether (MTBE) are present in the groundwater. Benzene was detected at concentrations of 18,000 micrograms per liter (µg/L) and 29,000 µg/L in the Semi-Perched and Artesia aquifers, respectively. MTBE was detected at a concentration of 14,500 µg/L in the Artesia Aquifer. The concentrations of chemicals in the groundwater at the Site exceed the numerical objectives to protect the beneficial uses of groundwater set forth in the Basin Plan, which include municipal use[2]. The residual contamination in soil and the LNAPL plumes continue to be a source for the dissolved phase groundwater plume.

5. Since the discovery of LNAPL in groundwater at the Site in 1979, approximately 241 groundwater wells have been installed both on and off site by Golden West and its predecessors. The purposes of these wells were to delineate and monitor the LNAPL and dissolved phase groundwater plumes in both aquifers, and for certain select wells, to remove LNAPL from the groundwater. Over time, approximately 101 of these wells were destroyed. Some, but not all, of the destroyed wells were replaced. At the present time there are 140 groundwater wells, located both on and off site.

6. In August 2013, Golden West conducted multi-depth soil vapor sampling at 11 off-site locations. Benzene was detected above the method reporting limit at only one sampling location. Another round of soil vapor sampling is required to confirm that vapors are not emanating from the Semi-Perched LNAPL plume to pose a risk to human health from vapor intrusion.

7. Under the current groundwater monitoring program, Golden West monitors 133 existing groundwater wells on a semi-annual basis for the presence of LNAPL and changes in groundwater levels. In addition, Golden West samples approximately 10 wells in the Artesia Aquifer for laboratory analyses. Currently, groundwater samples are analyzed for total petroleum hydrocarbons, oxygenates and VOCs.

8. Despite the implementation of a groundwater sampling and monitoring program by Golden West at the Site for decades, data gaps remain in the characterization of the LNAPL and dissolved phase plumes in the Semi-Perched and Artesia Aquifers. The distribution of LNAPL is not completely characterized due to the destruction of wells, placement of screen intervals and locations of groundwater wells. The groundwater sampling and monitoring program has not provided adequate information for the Regional Board to accurately monitor changes in the thickness and extent of LNAPL as well as the dissolved concentration of chemicals in the groundwater. In some cases groundwater wells were destroyed without collecting any samples and in other cases groundwater wells were destroyed even though sampling indicated that contaminants were present in the groundwater. There are also existing groundwater wells that have never been sampled to determine groundwater quality. Data gaps are particularly

[1] Additional data and information in support of the Regional Board's conclusion that operations at the Site are the source of the LNAPL plume that extends approximately 3000 feet down-gradient (southward) from the Site, beyond Rosecrans Boulevard, can be found in the Regional Board's letter to Mr. Chris Panaitescu, Golden West Refining Company, dated July 30, 2013, available at: http://geotracker.waterboards.ca.gov/search. SL373412444

[2] The California Department of Public Health maximum contaminant levels (MCLs) for benzene and MTBE are 1 micrograms per liter (µg/L) and 13 µg/L, respectively.

prevalent with respect to the Semi-Perched Aquifer, for which there is very little analytical data. Only a few Semi-Perched Aquifer wells have been sampled. Out of 108 Semi-perched Aquifer wells installed at the Site since 1981, most of the wells were never sampled and a few wells were sampled only one or two times. The most recent sample of a well in the Semi-Perched Aquifer taken for chemical analyses, was in 2002[3]. Golden West does not currently monitor the Semi-Perched Aquifer for pollutants such as petroleum hydrocarbons and VOCs.

9. As a result of gaps in the current and past groundwater monitoring programs, the Regional Board has incomplete data about the character of the LNAPL and dissolved phase groundwater contaminant plumes that emanate from the Site. These data gaps have limited the Regional Board's ability to verify the effectiveness of remediation and to determine the necessary scope and appropriate means of clean-up.

10. The Source Group, Inc. (SGI) submitted the Revised Groundwater Monitoring Program Review dated October 7, 2013. The proposed groundwater monitoring program does not address Regional Board concerns and falls short of the information needed to fill in the data gaps and to determine the proper remedy for the contaminant plumes emanating from the Site.

11. California Water Code section 13267(b)(1) states, in part: In conducting an investigation..., the regional board may require that any person who has discharged, discharges, or is suspected of having discharged or, discharging, or who proposes to discharge waste within its region ... shall furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires. The burden, including costs, of these reports shall bear a reasonable relationship to the need for the report and the benefits to be obtained from the reports. In requiring those reports, the regional board shall provide the person with a written explanation with regard to the need for the reports, and shall identify the evidence that supports requiring that person to provide the reports.

12. Golden West and Chevron (Dischargers) have discharged, discharge, or are suspected of having discharged waste at the Site, some of which has migrated off-site. The waste discharged at the Site that has or is suspected of having migrated off-site includes the LNAPL plume in the Semi-Perched Aquifer that extends to the south of the Site approximately 3,000 feet. The Dischargers are responsible for the discharges of waste identified in this Order based on their ownership of the Site and operation at the Site that resulted in the discharge of waste.

13. This Order requires the Dischargers to prepare and submit a work plan to install new groundwater wells and to fill in the data gaps. In addition, the Dischargers are required to develop a groundwater sampling and monitoring work plan for the existing and new on-site and off-site Semi-Perched and Artesia Aquifer wells.

14. The Regional Board needs the information that will be supplied by additional subsurface characterization, installation of new wells and a revised groundwater sampling and monitoring program to determine the complete character of the LNAPL and dissolved phase groundwater plumes that emanate from the Site, and to verify effectiveness of ongoing remediation that includes LNAPL removal and the extent of natural attenuation, if any, and other facts required to appropriately define the scope and most effective methods of cleanup and abatement. Golden

[3] Semi-Annual Groundwater Monitoring Report dated December 16, 2013.

West's current groundwater monitoring program and the modified program proposed by SGI in its report dated October 7, 2013, are inadequate.

15. The burdens, including costs, of these reports bear a reasonable relationship to the need for the reports and the benefits to be obtained from the reports. Much of the necessary monitoring can be accomplished with existing wells. The gaps in available data are largely due to the failure of Golden West and its predecessors to monitor existing wells at the Site[4]. The additional work consisting of subsurface assessment, soil vapor survey, groundwater well installation and monitoring is necessary because it will provide information on residual contamination in the vadose zone and groundwater, aid in the recovery of LNAPL, and determine the effectiveness of remediation, stability of the dissolved phase plume, pace of natural attenuation and threat to human health from vapor intrusion. The information to be provided by the activities required by this Order is necessary to achieve the goals of Cleanup and Abatement Order No. R4-2004-0020 and assure adequate cleanup of the Site, which currently poses significant threats to the environment.

16. The issuance of this Order is exempt from the provisions of the California Environmental Quality Act (CEQA) pursuant to section 15061(b)(3), Chapter 3, Title 14 of the California Code of Regulations. This Order requires submittal of proposed work plans and, after approval of the proposed work plans by the Executive Officer, submission of technical and monitoring reports. Submittal of the proposed work plans to the Regional Board does not in itself have the potential to cause a significant effect on the environment. Because the proposed activities under the work plans are not yet known, and are subject to discretionary approval by the Regional Board, assessment of the potential environmental impacts of the proposed activities is premature at this time. If implementation of the proposed work plans may result in significant impacts on the environment, the appropriate lead agency will address the CEQA requirements prior to approving or implementing the work plan.

17. Any person aggrieved by this action of the Regional Water Board may petition the State Water Resources Control Board (State Water Board) to review the action in accordance with Water Code section 13320 and California Code of Regulations, title 23, sections 2050 and following. The State Water Board must receive the petition by 5:00 p.m., 30 days after the date of this Order, except that if the thirtieth day following the date of this Order falls on a Saturday, Sunday, or state holiday, the petition must be received by the State Water Board by 5:00 p.m. on the next business day. Copies of the law and regulations applicable to filing petitions may be found on the Internet at: http://www.waterboards.ca.gov/public_notices/petitions/water_quality or will be provided upon request.

THEREFPRE, IT IS HEREBY ORDERED that Golden West Refining Company and Chevron, pursuant to section 13267(b) of the California Water Code, are required to do the following:

1. By **September 15, 2014,** submit a work plan to conduct subsurface investigation and install additional groundwater wells to address gaps in available data in defining the extent of the on-site and off-site LNAPL and dissolved phase plumes in the Semi-Perched and Artesia Aquifers.

[4] For example, wells in the Artesia Aquifer that are available for sampling but that Golden West has not sampled include: B-1, B-2, B-3, B-10, P-10, PO-3, PO-4, PO-7, PO-8, PO-11, PO-19, A-3A, A-22A, A-24A, A-56A, A-64, A-65, and A-66. See Semi Annual Groundwater Monitoring Report dated December 16, 2013.

The work plan must include, but should not be limited to, installation of groundwater wells at on-site and off-site locations to be approved by the Regional Water Board.

2. By **September 15, 2014**, submit a revised and comprehensive groundwater sampling and monitoring program for the LNAPL and dissolved phase groundwater plumes in the Semi-Perched and Artesia Aquifers, both on- and off-site covering the entire plume. The groundwater sampling and monitoring program should address, but not necessarily be limited to, concentration of contaminants dissolved in groundwater and geochemical parameters to monitor natural attenuation.

3. Conduct one additional round of soil vapor sampling at or near the 11 locations previously sampled in August 2013, pursuant to the Regional Board order dated July 23, 2013. The second round of soil vapor sampling is to confirm the results of previous sampling to evaluate any threat to human health from vapor intrusion due to the shallow depth of the LNAPL plume. Submit a report by **September 15, 2014** with the results of the soil vapor survey.

4. Comply with deadlines to be established by the Executive Officer for completion of activities and submission of technical reports described in [1] the work plan to install additional groundwater wells and [2] the groundwater sampling and monitoring program. The deadlines established by the Executive Officer, and any subsequent modifications approved by the Executive Officer, are incorporated herein by reference and are enforceable elements of this Order.

5. The Regional Board, through its Executive Officer, may revise this Order as additional information becomes available. Upon request by the Dischargers, and for good cause shown, the Executive Officer may defer, delete, or extend the date of compliance for any action required of the Dischargers under this Order.

6. This Order is not intended to permit or allow the Dischargers to cease any work required by any other Order issued by this Regional Board, nor shall it be used as a reason to stop or redirect any investigation or cleanup or remediation programs ordered by this Regional Board or any other agency. Furthermore, this Order does not exempt the Dischargers from compliance with any other laws, regulations, or ordinances which may be applicable.

7. The technical report is required to be submitted under the Water Code section 13267. Pursuant to Water Code section 13268(a), any person who fails to submit reports in accordance with this Order is guilty of a misdemeanor. Pursuant to Water Code section 13268(b)(1), failure to submit the required technical report described above by the specified due date(s) may result in the imposition of administrative civil liability by the Regional Board in an amount up to one thousand dollars ($1,000) per day for each day the technical report is not received after the due date. These civil liabilities may be assessed by the Regional Board for failure to comply, beginning with the date that the violations first occurred, and without further warning.

8. The Regional Board, under the authority given by Water Code section 13267(b)(1), requires you to include a perjury statement in all reports submitted pursuant to this Order. The perjury statement shall be signed by a senior authorized Golden West Refining Company representative (not by a consultant). The perjury statement shall be in the following format:

   "I, [NAME], certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision, in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my

inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

9. The State Board adopted regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, California Code of Regulation) requiring the electronic submittal of information (ESI) for all site cleanup programs, starting January 1, 2005. Currently, all of the information on electronic submittals and GeoTracker contacts can be found at http://www.waterboards.ca.gov/ust/electronic_submittal. To comply with the above referenced regulation, you are required to upload all technical reports, documents, and well data to GeoTracker by the due dates specified in the Regional Board letters and orders issued to you or for the site. However, we may request that you submit hard copies of selected documents and data to the Regional Board in addition to electronic submittal of information to GeoTracker.

For your convenience, the GeoTracker Global ID for this site is SL373412444.

SO ORDERED.

for Paula Rasmussen
Samuel Unger, P.E.
Executive Officer