



**Transmittal**

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**Date:** September 15, 2010 **From:** Dan Jablonski  
**To:** Mr. Paul Cho, PG CH2M HILL  
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**Subject:** July 2010 Monthly Groundwater Monitoring Submittal

**Project Name:** Defense Fuel Support Point (DFSP) Norwalk

**Item Description**

- 1 Table 1 - Summary of Groundwater Elevations, July 2010 Monthly Monitoring Event
- 2 Table 2 - Summary of Groundwater Analytical Data, July 2010 Monthly Monitoring Event
- 3 Table 3 - Summary of Miscellaneous Compounds Detected in Groundwater Samples, July 2010 Monthly Monitoring Event
- 4 Table 4 - Summary of Total Fluids and Groundwater Extraction Pump Operation, July 2010 Monthly Monitoring Event

**Remarks**

On behalf of SFPP, L.P., an operating partnership of Kinder Morgan Energy Partners, L.P. (KMEP), CH2M HILL is transmitting the groundwater monitoring results for the July 2010 monthly monitoring event conducted at the DFSP Norwalk site. The July 2010 monthly monitoring event was conducted concurrently with the third quarter 2010 sentry monitoring event. Groundwater elevations and analytical data for wells monitored during this monthly monitoring event are summarized in Tables 1 through 3, and are briefly discussed below. The operation of SFPP's extraction wells during July 2010 is summarized in Table 4.

- 1) During this monthly monitoring event, Blaine Tech Services, Inc. (Blaine Tech) sampled wells GMW-36, GMW-O-15, GMW-O-16, GMW-O-18, GMW-O-19, and PZ-5 located in the southeastern area. Blaine Tech gauged these well prior to sampling, except for GMW-36, GMW-O-15, and GMW-O-18 because these wells were in operation. Samples were collected from the operating wells through the wellhead sampling ports.
- 2) Groundwater elevations have generally decreased (approximately 0.40 to 0.73 feet) in the area since the June 2010 monitoring event. The groundwater extraction system was in operation during this monitoring event, thus these groundwater levels do not reflect the static water level conditions in the area.
- 3) Wells GMW-36 and GMW-O-15 are used for total fluids extraction (TFE) but also have been used to monitor groundwater conditions within the extent of free product in the southeastern

area. Free product has historically been detected in both of these wells; however, since both wells were operating at the time of the July sampling, free product measurements were not collected. Reported concentrations of some volatile organic compounds (VOCs), total petroleum hydrocarbons (TPH) quantified as gasoline (TPH-g), and TPH quantified as fuel product (TPH-fp) in well GMW-36 during July 2010 were at least one order of magnitude lower than concentrations reported during June 2010, when free product was detected. The reported concentrations of TPH-fp and toluene in well GMW-O-15 during July 2010 were lower than the concentrations reported during June 2010. Reported concentrations of TPH-g, benzene, ethylbenzene, methyl tertiary butyl ether (MTBE), and tertiary butyl alcohol (TBA) in well GMW-O-15 during July 2010 were higher than those reported during June 2010. Fluctuation in concentrations of fuel constituents in wells with a historical presence of free product is expected depending on various factors such as water level fluctuation, groundwater extraction, and sampling methods.

- 4) Wells GMW-O-16, GMW-O-18, and GMW-O-19, and PZ-5 are located outside the extent of free product and used to monitor the extent of dissolved-phase fuel constituents in groundwater in the southeastern area. Similar to the previous monthly monitoring events, VOCs, TPH-g, and TPH-fp were not detected in wells GMW-O-16 and GMW-O-19 with the exception that benzene and MTBE were detected at low concentrations in well GMW-O-16. Reported concentrations of VOCs in well GMW-O-18 have generally decreased since October 2009 with the exception of TBA. The TPH-g concentration reported in well GMW-O-18 was slightly higher than the concentration reported in June 2010. Reported concentrations of TPH-g, TPH-fp, benzene, ethylbenzene, MTBE, and TBA increased slightly relative to historical concentrations while the other VOCs were not detected in well PZ-5. To address the dissolved-phase constituents in this area, TFE was expanded to include well GMW-O-18 in April 2010. In addition, a work plan for additional groundwater assessment near well GMW-O-18 has been submitted to the RWQCB for review.
- 5) The TFE pumps in wells GMW-36, GMW-O-15, and GMW-O-18 are in operation in the southeastern area and continue to extract groundwater in the area for treatment. Monthly groundwater monitoring in the southeastern area will continue and groundwater conditions will continue to be evaluated as additional groundwater monitoring and remediation system operation data are obtained.
- 6) Three equipment blanks and one trip blank sample were collected during this sampling event. No VOCs, TPH-g, or TPH-fp were detected at or above laboratory reporting limits in the equipment or trip blank samples.

Please contact Dan Jablonski at 213.228.8271 if you have any questions.

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**TABLE 1**

**SUMMARY OF GROUNDWATER ELEVATIONS  
JULY 2010 MONTHLY MONITORING EVENT**  
Defense Fuel Support Point Norwalk  
Norwalk, California

Well	Date	Top of Casing Elevation (feet msl)	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Apparent Product Thickness (feet)	Groundwater Elevation (feet msl)
GMW-36	03/15/10	74.53	---	26.80	---	47.73
	04/16/10	74.53	---	26.90	---	47.63
	05/24/10	74.53	25.90	25.96	0.06	NC
	05/28/10	74.53	25.88	25.94	0.06	NC
	06/22/10	74.53	25.91	25.94	0.03	NC
	07/12/10	74.53	NM	NM	NM	NC
GMW-O-15	03/15/10	74.23	---	NM	---	NC
	04/16/10	74.23	---	23.10	---	51.13
	05/24/10	74.23	---	25.67	---	48.56
	05/28/10	74.23	---	25.35	---	48.88
	06/22/10	74.23	---	25.81	---	48.42
	07/12/10	74.23	NM	NM	NM	NC
GMW-O-16	03/15/10	74.10	---	26.30	---	47.80
	04/16/10	74.10	---	25.20	---	48.90
	05/24/10	74.10	---	25.14	---	48.96
	05/28/10	74.10	---	25.13	---	48.97
	06/22/10	74.10	---	25.55	---	48.55
	07/12/10	74.10	---	26.28	---	47.82
GMW-O-18	03/15/10	74.36	---	26.54	---	47.82
	04/16/10	74.36	---	24.25	---	50.11
	05/24/10	74.36	---	26.26	---	48.10
	05/28/10	74.36	---	26.03	---	48.33
	06/22/10	74.36	---	26.41	---	47.95
	07/12/10	74.36	---	NM	---	NC
GMW-O-19	03/15/10	74.46	---	26.16	---	48.30
	04/16/10	74.46	---	25.30	---	49.16
	05/24/10	74.46	---	25.53	---	48.93
	05/28/10	74.46	---	25.47	---	48.99
	06/22/10	74.46	---	25.64	---	48.82
	07/12/10	74.46	---	26.04	---	48.42
PZ-5	03/15/10	73.97	---	25.99	---	47.98
	04/16/10	73.97	---	25.12	---	48.85
	05/24/10	73.97	---	25.71	---	48.26
	05/28/10	73.97	---	25.68	---	48.29
	06/22/10	73.97	---	25.54	---	48.43
	07/12/10	73.97	---	26.09	---	47.88

**Notes**

--- = not detected or not applicable.

feet btoc = feet below top of casing.

feet msl = feet above mean sea level based on the National Geodetic Vertical Datum of 1929.

NC = not calculated.

NM = not measured since extraction pump was in operation.

**TABLE 2**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA**  
**JULY 2010 MONTHLY MONITORING EVENT**  
 Defense Fuel Support Point Norwalk  
 Norwalk, California

Results reported in micrograms per liter (µg/L)

Sample ID	Date	TPH-g	TPH-fp	Benzene	Toluene	Ethyl-benzene	Total Xylenes <sup>1</sup>	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
GMW-36	07/10/97	430	---	---	---	---	---	---	---	---	---	---	---
	01/09/98	4000	---	22	21	6.1	100	<5	7700	---	---	---	---
	05/20/98	1400	---	<0.3	<0.3	<10	<20	<0.5	19,600	---	---	---	---
	11/17/98	7900	6650	2100	1370	70	650	<50	34,800	---	---	---	---
	05/07/99	2800	---	<10	<10	<10	<10	<25	14,000	---	---	---	---
	11/18/99	51,000	22,000	8100	5600	<250	1770	<250	47,000	---	---	---	---
	05/17/00	59,000	53,000	14,000	6700	480	4100	<130	45,000	---	---	---	---
	11/30/00	110,000	66,000	20,000	19,000	1600	8100	<0.5	13,000	---	---	---	---
	02/06/01	75,000	55,000	18,000	13,000	1400	6100	<50	9100	---	---	---	---
	05/10/01	12,000	5100	3700	2500	420	1730	<0.5	1600	---	---	---	---
	09/19/01	21,000	37,000	5800	3600	580	2080	<13	1000	---	---	---	---
	11/06/01	63,000	40,000	16,000	13,000	1600	7700	<25	3200	---	---	---	---
	01/30/02	130,000	68,000	21,000	20,000	1700	9000	<125	42,000	---	---	---	---
	04/10/02	150,000	49,000	25,000	22,000	1800	10,000	<50	67,000	---	---	---	---
	07/30/02	81,000	110,000	28,000	29,000	2200	11,800	<50	37,000	---	---	---	---
	12/06/06	32,000	10,000	5300	4300	480	4300	<50	1600	---	---	---	---
	03/13/07	54,000	7200	9400	12,000	1100	8200	<200	3800	---	---	---	---
	05/05/07	69,000	11,000	9800	11,000	1200	8000	<200	3900	---	---	---	---
	08/29/07	30,000	9800	4100	4200	420	4500	120	890	---	---	---	---
	02/20/08	34,000	9100	3900	6000	750	4600	<50	43	---	---	---	---
04/16/08	42,000	11,000	5200	8300	940	6200	<200	<100	---	---	---	---	
10/16/08	17,000	32,000	2100	2000	160	2300	<20	26	---	---	---	---	
07/22/09	24,000	15,000	3800	5400	720	3380	<50	28	<500	<50	<50	<50	
03/16/10	8000	22,000	830	1100	140	700	<10	16	690	<10	<10	<10	
04/16/10	4200	25,000	850	150	89	200	<50	11	3700	<50	<50	<50	
05/24/10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
06/25/10 <sup>2,3</sup>	14,000	43,000	1100	1500	160	1260	<20	11	2700	<20	<20	<20	
07/13/10 <sup>2</sup>	500	4,500	49	51	4.9	68	<0.5	0.91	340	<10	<10	<10	
10/16/08	1700	2800	550	3	37	34.1	<5	110	---	---	---	---	
03/16/10 <sup>2</sup>	530	8900	10	1.1	0.64	2.7	<0.50	400	<10	<10	<10	1.9	
04/16/10	6700	62,000	1700	54	120	176	<10	1300	1800	<10	<10	11	
05/25/10	650	5,600	82	16	8.4	44	<20	180	1500	<20	<20	<20	
06/25/10 <sup>2</sup>	490	900	96	9.7	9.6	33.4	<10	240	2900	<10	<10	1.1	
07/13/10 <sup>2</sup>	580	250	110	7.5	11	33.7	<10	300	5100	<10	<10	1.5	

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**JULY 2010 MONTHLY MONITORING EVENT**  
 Defense Fuel Support Point Norwalk  
 Norwalk, California

Results reported in micrograms per liter (µg/L)

Sample ID	Date	TPH-g	TPH-fp	Benzene	Toluene	Ethyl-benzene	Total Xylenes <sup>1</sup>	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
GMW-O-16	11/27/96	---	---	570	67	14	360	<5	120	---	---	---	---
	07/17/97	<100	---	<0.5	<0.5	<0.5	<1	<0.5	310	---	---	---	---
	01/06/98	<100	---	<0.5	<0.5	<0.5	<1.5	<0.5	<5	---	---	---	---
	01/09/98	4600	---	---	---	---	---	---	---	---	---	---	---
	05/20/98	<300	---	<0.5	<0.5	<0.5	<1	<0.5	76	---	---	---	---
	11/13/98	<300	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	---	---	---	---
	05/07/99	<500	---	0.66	<0.5	<0.5	0.72	<1	7.6	---	---	---	---
	11/18/99	<416	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	05/17/00	<300	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	---	---	---	---
	11/30/00	<300	<100	0.8	<0.5	<0.5	<0.5	<0.5	0.6	---	---	---	---
	05/10/01	<300	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	04/10/02	<300	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	10/22/02	<300	<100	1.6	0.98	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	04/09/03	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	10/07/03	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	04/22/04	<50	3600	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	07/20/04	---	<100	---	---	---	---	---	---	---	---	---	---
	11/02/04	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	05/05/05	92	<100	1.6	<0.5	<0.5	<0.5	<0.5	<0.5	110	---	---	---
	08/02/05	57	<100	1.3	<0.5	<0.5	<0.5	<0.5	<0.5	93	---	---	---
	11/02/05	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	57	---	---	---
	02/28/06	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5.3	---	---	---
	05/04/06	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.3	---	---	---
	09/19/06	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.57	---	---	---
	12/05/06	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	05/05/07	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	11/14/07	<50	1400	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---
02/07/08	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.68	---	---	---	
04/16/08	<50	<100	<0.5	1.2	0.59	5.5	<0.5	<0.5	0.63	---	---	---	
10/14/08	<50	<100	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	0.65	---	---	---	
04/23/09	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.55	<10	<1	<1	
10/21/09	<50	250	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	
03/16/10	<50	140	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	
04/16/10	<50	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	
05/26/10	<50	120	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.88	<10	<1.0	<1.0	
06/22/10	<50	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.2	<10	<1.0	<1.0	
07/13/10	<50	<100	0.73	<0.5	<0.5	<0.5	<0.5	<0.5	1.9	<10	<1.0	<1.0	

**TABLE 2**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA**  
**JULY 2010 MONTHLY MONITORING EVENT**  
 Defense Fuel Support Point Norwalk  
 Norwalk, California

Results reported in micrograms per liter (µg/L)

Sample ID	Date	TPH-g	TPH-fp	Benzene	Toluene	Ethyl-benzene	Total Xylenes <sup>1</sup>	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
GMW-O-18	11/26/96	---	---	<10	<10	<10	<30	<10	10,000	---	---	---	---
	11/27/96	---	---	<10	66	<10	<30	<5	120	---	---	---	---
	07/11/97	<100	---	<3	<3	<3	<3	<3	3000	---	---	---	---
	01/07/98	<100	---	<5	<5	<5	<15	<5	3200	---	---	---	---
	05/21/98	2000	---	<100	<100	<100	<200	<100	5600	---	---	---	---
	11/17/98	543	<100	<0.5	1	<0.5	2.6	<0.5	1420	---	---	---	---
	05/06/99	2700	---	<5	<5	<5	<5	<13	15,000	---	---	---	---
	11/18/99	2900	<100	<13	<12.5	<12.5	<12.5	<13	6700	---	---	---	---
	05/19/00	3500	<100	<25	<25	<25	<25	<25	10,000	---	---	---	---
	11/02/05	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	1.4	---	---	---	---
	05/09/06	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	2.1	---	---	---	---
	12/07/06	<100	<100	<0.5	<0.5	<0.5	<0.5	<1	0.65	---	---	---	---
	05/04/07	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.62	---	---	---	---
	11/15/07	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	1.6	---	---	---	---
	04/15/08	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	10/15/08	<200	<100	<1	<1	<1	<1	<2	<1	---	---	---	---
	04/23/09	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	1	140	<1	<1	<1
10/21/09	2400	680	170	440	17	410	<5	490	480	<5	<5	<5	
03/16/10	<50	<100	0.60	1.3	<0.50	1.77	<0.50	4.5	550	<1.0	<1.0	<1.0	
04/16/10	1300	6600	0.67	<0.50	3.1	12.9	<0.50	1.2	2400	<1.0	<1.0	<1.0	
05/25/10	110	540	<0.50	<0.50	<0.50	<0.50	<1.0	2.9	6500	<1.0	<1.0	<1.0	
06/25/10 <sup>2</sup>	74	140	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	8300	<1.0	<1.0	<1.0	
07/14/10 <sup>2</sup>	110	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.85	11,000	<1.0	<1.0	<1.0	
GMW-O-19	11/25/96	---	---	<0.5	<0.87	2.8	5.1	<0.5	<5	---	---	---	---
	07/16/97	<100	---	<0.5	<0.5	<0.5	<1	<0.5	<5	---	---	---	---
	01/06/98	<100	---	<0.5	<0.5	<0.5	<1.5	<0.5	<5	---	---	---	---
	05/20/98	<300	---	<0.5	<0.5	<0.5	<1	<0.5	2	---	---	---	---
	11/12/98	<300	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	05/06/99	<500	---	<0.5	<0.5	<0.5	<0.5	<1	0.51	---	---	---	---
	11/18/99	<416	<100	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	---	---	---	---
	05/17/00	<300	180	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	09/19/01	<300	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	11/07/01	<300	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	01/30/02	<300	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
04/09/03	<50	500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
08/01/03	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
10/07/03	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	

**TABLE 2**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA**  
**JULY 2010 MONTHLY MONITORING EVENT**  
 Defense Fuel Support Point Norwalk  
 Norwalk, California

Results reported in micrograms per liter (µg/L)

Sample ID	Date	TPH-g	TPH-fp	Benzene	Toluene	Ethyl-benzene	Total Xylenes <sup>1</sup>	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
GMW-O-19 (Cont.)	04/22/04	<50	1400	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	07/20/04	---	<100	---	---	---	---	---	---	---	---	---	---
	11/02/04	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	05/05/05	510	110	110	<0.5	17	24.5	<1	150	---	---	---	---
	08/02/05	160	<100	2.1	<0.5	1.2	<0.5	<0.5	19	---	---	---	---
	11/02/05	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	02/28/06	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	05/04/06	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	12/05/06	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	05/05/07	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	11/15/07	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	04/16/08	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	10/14/08	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	04/23/09	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<1
	10/20/09	<50	<200	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1	<1	<1
	03/15/10	<50	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
	04/16/10	<50	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0
05/26/10	<50	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0	
06/22/10	<50	<100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<1.0	<1.0	<1.0	
07/13/10	<50	<100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	<1.0	<1.0	<1.0	
PZ-5	10/07/03	6900	<100	11	<10	<10	<10	<20	9100	---	---	---	---
	05/05/05	<50	<100	0.87	<0.5	<0.5	<0.5	<0.5	43	---	---	---	---
	11/02/05	1200	<100	<2.5	<2.5	<2.5	<2.5	<5	2100	---	---	---	---
	02/28/06	160	<100	<0.5	<0.5	<0.5	<0.5	<1	380	---	---	---	---
	05/04/06	1200	<100	<2	<2	<2	<2	<4	1900	---	---	---	---
	09/19/06	480	<100	<1	<1	<1	<1	<2	1200	---	---	---	---
	12/07/06	480	<100	<1.5	<1.5	<1.5	<1.5	<3	960	---	---	---	---
	03/13/07	320	<100	<1	<1	<1	<1	<2	690	---	---	---	---
	05/04/07	400	<100	<0.5	<0.5	<0.5	<0.5	<1	610	---	---	---	---
	08/29/07	380	<100	<1	<1	<1	<1	<2	480	---	---	---	---
	11/15/07	370	<100	<0.5	<0.5	<0.5	<0.5	<1	470	---	---	---	---
	02/20/08	940	560	<1	<1	<1	<1	<2	750	---	---	---	---
	04/15/08	750	330	<1	<1	<1	<1	<2	740	---	---	---	---
08/12/08	1500	370	<2	<2	<2	<2	<4	2000	---	---	---	---	
10/16/08	<3000	210	22	<15	<15	<15	<30	1900	---	---	---	---	

**TABLE 2**  
**SUMMARY OF GROUNDWATER ANALYTICAL DATA**  
**JULY 2010 MONTHLY MONITORING EVENT**  
 Defense Fuel Support Point Norwalk  
 Norwalk, California

Results reported in micrograms per liter (µg/L)

Sample ID	Date	TPH-g	TPH-fp	Benzene	Toluene	Ethyl-benzene	Total Xylenes <sup>1</sup>	1,2-DCA	MTBE	TBA	DIPE	ETBE	TAME
PZ-5 (Cont.)	02/24/09	1000	440	61	<1	<1	<1	<2	1200	37,000	---	---	---
	02/24/09 <sup>4</sup>	2400	1000	71	<100	<100	<100	<50	1400	47,000	<200	<200	<200
	04/23/09	1200	760	250	<2	5.7	<2	<4	1200	35,000	<4	<4	<4
	07/22/09	3800	1800	2000	20	98	77	<5	800	54,000	<5	<5	<5
	10/23/09	2900	1300	1100	18	53	69	<10	500	50,000	<10	<10	<10
	03/16/10	1700	890	370	2.1	33	9.4	<4.0	350	58,000	<4.0	<4.0	<4.0
	04/16/10	1600	1100	110	<2.5	9.7	4.6	<5.0	340	91,000	<5.0	<5.0	<5.0
	05/27/10	3200 J	1300	1100	<25	66	<25	<50	360	69,000	<50	<50	<50
	06/22/10	3600	900	1500	<10	96	<10	<20	450	73,000	<20	<20	<20
	07/14/10	4600	1300	1900	<10	180	<10	<20	530	82,000	<20	<20	<20

**Notes**

- The total xylenes result is the sum of m,p-xylenes and o-xylenes when detected.
- Groundwater sample collected through a sampling port.
- Free product was present.
- Split groundwater sample analyzed by Calscience Environmental Laboratories, Inc. Results were evaluated to laboratory method detection limits.

**Abbreviations**

- = not analyzed or not applicable.
- <5.0 = not detected at or above the laboratory reporting limit shown.
- NS = well not sampled due to presence of free product.
- J = The analyte was positively identified, the associated numerical value is the approximate concentration of the analyte in the sample.
- 1,2-DCA = 1,2-dichloroethane.
- DIPE = di-isopropyl ether.
- ETBE = ethyl tertiary butyl ether.
- MTBE = methyl tertiary butyl ether.
- TAME = tertiary amyl methyl ether.
- TBA = tertiary butyl alcohol.
- TPH-fp = total extractable petroleum hydrocarbons quantified using a site fuel product standard.
- TPH-g = total purgeable petroleum hydrocarbons quantified using a gasoline standard (C4-C13).



**TABLE 3**

**SUMMARY OF MISCELLANEOUS COMPOUNDS DETECTED IN GROUNDWATER SAMPLES  
JULY 2010 MONTHLY MONITORING EVENT**

Defense Fuel Support Point Norwalk  
Norwalk, California

Results reported in micrograms per liter ( $\mu\text{g/L}$ )

Well	Date	1,2,4- Trimethylbenzene	1,3,5- Trimethylbenzene	n-Butylbenzene	n-Propylbenzene
GMW-36	07/13/2010	10	6	1.5	<1.0
GMW-O-15	07/13/2010	7.2	2.4	<1.0	1.1

**Notes**

<1.0 = not detected at or above the laboratory reporting limit shown.

**TABLE 4**  
**SUMMARY OF TOTAL FLUIDS AND GROUNDWATER EXTRACTION PUMP OPERATION**  
**JULY 2010 MONTHLY MONITORING EVENT**  
 Defense Fuel Support Point Norwalk  
 Norwalk, California

Remediation Area	Remediation Well ID	Pump Type	7/20/10 Pump Status (ON/OFF)	Comments
South-Central Area	GMW-9	TFE	OFF	Off due to high selenium concentration
	GMW-22	TFE	OFF	Off due to high selenium concentration
	GMW-24	TFE	OFF	Off due to high selenium concentration
	GMW-25	GWE	OFF	Off due to high selenium concentration
	GWR-3	GWE	OFF	Off due to high selenium concentration
	MW-SF-2	TFE	OFF	Off due to high selenium concentration
	MW-SF-3	TFE	OFF	Off due to high selenium concentration
	MW-SF-6	TFE	OFF	Off due to high selenium concentration
	MW-SF-11	TFE	OFF	Off due to high selenium concentration
	MW-SF-12	TFE	OFF	Off due to high selenium concentration
	MW-SF-13	TFE	OFF	Off due to high selenium concentration
	MW-SF-14	TFE	ON	
	MW-SF-15	TFE	ON	
	MW-SF-16	TFE	OFF	Off due to high selenium concentration
	MW-O-1	TFE	OFF	Off due to high selenium concentration
	MW-O-2	TFE	OFF	Off due to high selenium concentration
	Southeastern Area	GMW-O-11	TFE	ON
GMW-O-20		TFE	OFF	Off due to high selenium concentration
GMW-O-21		TFE	OFF	Off due to high selenium concentration
GMW-O-23		TFE	OFF	Off due to high selenium concentration
GMW-O-15		TFE	ON	
GMW-O-18		TFE	ON	
GMW-36		TFE	ON	

**Notes**

Data reported based on information provided by SFPP, L.P.

**Abbreviations**

GWE = groundwater extraction.

TFE = total fluids extraction.