



Transmittal

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Date: May 13, 2011
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Control Board – Los Angeles
Region (RWQCB)
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Subject: Remediation System Operational Status, April 2011

Project Name: Defense Fuel Support Point (DFSP) Norwalk

Item Description

1 Table 1 – Remediation Well Construction and Status

Remarks

On behalf of SFPP, L.P., an operating partnership of Kinder Morgan Energy Partners, L.P. (KMEP), CH2M HILL is transmitting this monthly remediation system operational status for April 2011. As requested in the RWQCB's July 20, 2010 e-mail, this status report includes the following:

1. Groundwater and soil vapor extracted from individual wells for treatment;
2. Treated groundwater discharged under NPDES; and
3. System down time, wells affected, and reason for downtime.

A summary of remediation wells in the south-central, southeastern, and West Side Barrier areas is presented in Table 1. Table 1 includes well identifications, well construction details, well use, and operational status as of April 29, 2011. Operational status and maintenance of the system is briefly discussed below.

Tasks performed for operation and maintenance of the remediation systems during the reporting period included:

- Weekly maintenance and monitoring of the south-central and southeastern SVE and TFE/GWE wells, and soil vapor and groundwater treatment systems (collectively referred to as remediation systems);
- Inspection of groundwater extraction pumps;
- Collection and analysis of treatment system influent soil vapor and groundwater samples;
- Collection and analysis of treatment system effluent soil vapor and water samples;
- Replacement of carbon from the granular activated carbon (GAC) vessels; and
- Connection of a fluidized bed bioreactor (FBBR)

During the reporting period, remediation system inspections were performed on a weekly basis

and volumes of extracted groundwater, hours of operation, and other system parameters were recorded on an approximately weekly basis during system operation.

Soil Vapor Extraction and Treatment System

The SVE system was operational for approximately 491 hours (64% uptime) during April 2011. The SVE wells in operation during April include MW-SF-3, MW-SF-12, MW-SF-14, MW-SF-16, GMW-10, MW-O-1, MW-O-2, GMW-O-11, GMW-O-12, GMW-O-20, and GMW-O-23 in the south-central area; and GMW-O-15 and GMW-O-18 in the southeastern area. The system was turned off from April 4 through April 15, 2011, for the second quarter 2011 semiannual groundwater sampling event.

Total Fluids and Groundwater Extraction and Treatment System

The TFE/GWE system was operational for approximately 490 hours (64% uptime) during April 2011. The TFE/GWE wells in operation during April include MW-SF-11, MW-SF-13, MW-SF-14, MW-SF-15, MW-SF-16, GMW-22, and GMW-O-21 in the south-central area; and GMW-O-15, GMW-O-18, and GMW-36 in the southeastern area. The TFE/GWE system was turned off from April 4 through April 15, 2011, for the second quarter 2011 semiannual groundwater sampling event. The system also was turned off on April 22, 2011, to change the carbon from the lead GAC vessel. The screen inside the vessel was damaged causing carbon to leak out of the vessel onto the containment pad. The screen was repaired and fresh carbon was added on April 26, 2011. The TFE/GWE system was restarted on April 27, 2011. KMEP's remediation contractor, Cardno ERI, placed the new FBBR during the last reporting period but continued installation of the above-ground appurtenances (e.g., electrical and plumbing) during April. The FBBR will be used in conjunction with the existing groundwater treatment system to treat tertiary butyl alcohol (TBA), a new NPDES discharge parameter.

Groundwater extracted, treated, and discharged under the NPDES permit in April 2011 is as follows:

- Groundwater extracted from the south-central area wells: 485,880 gallons
- Groundwater extracted from the southeastern area wells: 162,138 gallons
- Treated groundwater discharged under NPDES: 648,018 gallons

Please contact Vladimir Carino at 714.435.6017 if you have any questions.

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**TABLE 1
REMEDIATION WELL CONSTRUCTION AND STATUS**

SFPP, L.P.
Defense Fuel Support Point Norwalk
Norwalk, California

Remediation Area	Remediation Well ID	Installation Date	Top of Well Casing Elevation (ft msl)	Well Screen Interval (ft bgs)	Remediation Well Function	Well Operation Status on April 29, 2011 ¹
South-Central	MW-SF-1	6/18/1990	78.93	25 - 40	SVE	OFF
	MW-SF-2	6/18/1990	78.53	25 - 40	SVE; TFE	OFF; OFF
	MW-SF-3	6/18/1990	78.12	25 - 40	SVE; TFE	ON; OFF
	MW-SF-4	6/19/1990	79.38	25 - 40	SVE	OFF
	MW-SF-5	9/19/1990	79.74	23 - 38	SVE	OFF
	MW-SF-6	9/19/1990	76.80	25 - 40	SVE; TFE	OFF; OFF
	MW-SF-9	6/15/1995	74.10	--	SVE	OFF
	MW-SF-10	9/23/2003	76.53	10 - 30	SVE	OFF
	MW-SF-11	6/19/2007	78.56	20 - 40	SVE; TFE	OFF; ON
	MW-SF-12	6/18/2007	78.07	20 - 40	SVE; TFE	ON; OFF
	MW-SF-13	6/19/2007	73.40	20 - 40	SVE; TFE	OFF; ON
	MW-SF-14	6/21/2007	78.16	20 - 40	SVE; TFE	ON; ON
	MW-SF-15	6/21/2007	78.27	20 - 40	SVE; TFE	OFF; ON
	MW-SF-16	6/20/2007	78.21	20 - 40	SVE; TFE	ON; ON
	GMW-9	7/8/1991	74.44	20 - 50	SVE; TFE	OFF; OFF
	GMW-10	7/8/1991	74.67	25 - 50	SVE	ON
	GMW-22	8/2/1991	74.17	25 - 60	SVE; TFE	OFF; ON
	GMW-24	8/5/1991	74.04	25 - 60	SVE; TFE	OFF; OFF
	GMW-25	1/10/1992	74.29	20 - 50	SVE; GWE	OFF; OFF
	GWR-3	1/10/1992	74.93	20 - 50	SVE; GWE	OFF; OFF
	VEW-1	--	--	--	SVE	OFF
	VEW-2	--	--	--	SVE	OFF
	MW-O-1	1/22/1991	75.48	25 - 40	SVE; TFE	ON; OFF
	MW-O-2	1/23/1991	71.90	25 - 40	SVE; TFE	ON; OFF
	GMW-O-11	5/20/1992	74.17	20 - 50	SVE; TFE	ON; OFF
	GMW-O-12	5/21/1992	73.49	20 - 50	SVE	ON
	GMW-O-20	6/15/1995	73.32	--	SVE; TFE	ON; OFF
	GMW-O-21	10/1/1997	71.43	26 - 46	TFE	ON
	GMW-O-23	6/25/2007	73.63	20 - 40	SVE; TFE	ON; OFF
	MW-18 (MID)	6/10/1991	75.67	50 - 60	SVE	OFF
HW-2	--	--	--	SVE	OFF	
Southeastern	GMW-O-15	4/19/1994	74.23	20 - 50	SVE; TFE	ON; ON
	GMW-O-18	7/25/1994	74.36	21 - 40	SVE; TFE	ON; ON
	GMW-36	4/11/1994	74.53	20 - 50	TFE	ON
	GMW-SF-9	4/1/2003	73.00	37 - 46	GWE	OFF
	GMW-SF-10	4/2/2003	75.77	37 - 46	GWE	OFF
West Side Barrier	BW-2	5/20/1996	73.57	27 - 47	GWE	OFF
	BW-3	5/17/1996	74.16	31 - 50	GWE	OFF
	BW-4	5/20/1996	74.61	28 - 47	GWE	OFF
	BW-5	5/23/1996	73.59	27 - 46	GWE	OFF
	BW-6	5/22/1996	73.48	28 - 47	GWE	OFF
	BW-7	5/22/1996	74.65	27 - 46	GWE	OFF
	BW-8	5/21/1996	75.08	27 - 46	GWE	OFF
	BW-9	5/21/1996	76.19	27 - 46	GWE	OFF

Notes

1. The well operations listed correspond to the well functions indicated in the previous column. Based on information provided by SFPP, L.P.

Abbreviations

-- = information not available
ft msl = feet above mean sea level based on the National Geodetic Vertical Datum of 1929.
ft bgs = feet below ground surface
GWE = groundwater extraction
SVE = soil vapor extraction
TFE = total fluids extraction