



Transmittal

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Date: September 15, 2010 **From:** Vladimir Carino
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Subject: Remediation System Operational Status – August 2010

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 the monthly remediation system operational status for August 2010. 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
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 at the end of August 2010. 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, TFE/GWE, 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; and
- Troubleshooting of the SVE system.

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 159 hours during August 2010. The SVE system was down for most of August due to multiple high temperature alarms and main breaker trips. Several site visits have been made by the KMEP technicians and a remediation system contractor to troubleshoot this issue. In addition, testing of the SVE has been conducted to confirm its overall destruction efficiency. Troubleshooting will continue until the SVE system becomes fully operational.

Total Fluids and Groundwater Extraction and Treatment System

TFE/GWE wells that were in operation during August 2010 include MW-SF-12, MW-SF-14, MW-SF-15, GMW-O-11, and MW-O-2 in the south-central area; and wells GMW-O-15, GMW-O-18, and GMW-36 in the southeastern area. These wells were selected because their aggregate selenium concentration was expected to meet the discharge limits for selenium specified in the NPDES permit (4.1 micrograms per liter [$\mu\text{g/L}$]). Additional TFE/GWE wells are anticipated to be brought online in September after installation of several of the repaired pumps.

Groundwater extracted, treated, and discharged under the NPDES permit in August 2010 was as follows:

- Groundwater extracted from the south-central area wells: 283,107 gallons
- Groundwater extracted from the southeastern area wells: 270,687 gallons
- Treated groundwater discharged under NPDES: 553,794 gallons

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

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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 August 27, 2010
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	OFF; 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; OFF
	MW-SF-12	6/18/2007	78.07	20 - 40	SVE; TFE	OFF; ON
	MW-SF-13	6/19/2007	73.40	20 - 40	SVE; TFE	OFF; OFF
	MW-SF-14	6/21/2007	78.16	20 - 40	SVE; TFE	OFF; 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	OFF; OFF
	GMW-9	7/8/1991	74.44	20 - 50	SVE; TFE	OFF; OFF
	GMW-10	7/8/1991	74.67	25 - 50	SVE	OFF
	GMW-22	8/2/1991	74.17	25 - 60	SVE; TFE	OFF; OFF
	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	OFF; OFF
	MW-O-2	1/23/1991	71.90	25 - 40	SVE; TFE	OFF; ON
	GMW-O-11	5/20/1992	74.17	20 - 50	SVE; TFE	OFF; ON
	GMW-O-12	5/21/1992	73.49	20 - 50	SVE	OFF
	GMW-O-20	6/15/1995	73.32	--	SVE; TFE	OFF; OFF
	GMW-O-21	10/1/1997	71.43	26 - 46	TFE	OFF
	GMW-O-23	6/25/2007	73.63	20 - 40	SVE; TFE	OFF; 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
GMW-O-18		7/25/1994	74.36	21 - 40	SVE; TFE	OFF; 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

- 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