



Transmittal

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Date: October 14, 2011 **From:** Vladimir Carino
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Subject: Remediation System Operational Status, September 2011

Project Name: SFPP Norwalk Pump Station, Norwalk, California

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 September 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 National Pollutant Discharge Elimination System (NPDES)
3. System downtime, 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 September 27, 2011. Operational status and maintenance of the system are 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 soil vapor extraction (SVE) and total fluids extraction/groundwater extraction (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
- Connection of alarm signals for the product tank to an automated notification system (automatic dialer)

- Replacement of the oil water separator (OWS) media
- Cleaning of the OWS, transfer tank, and equalization tank
- Replacement of one of the polishing GAC vessels due to a damaged seal
- Redevelopment of southeastern wells GMW-SF-9 and GMW-SF-10 and the offsite well GMW-O-21.

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 553 hours (77 percent uptime) from August 30, 2011, to September 30, 2011. The SVE wells in operation during September include MW-SF-11, MW-SF-12, MW-SF-14, MW-SF-16, GMW-10, GWR-3, 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 down on September 16, 2011, due to low pressure in the natural gas line that feeds the burner for the SVE system. It is believed that the low pressure was a result of the ruptured natural gas line near the truck fill stand (the SVE natural gas feed line and natural gas line near the truck fill stand are likely connected). The gas line was ruptured as a result of Parsons' demolition activities in that area. The system was restarted on September 19, 2011, after the gas line was repaired and adequate gas pressure was restored to the SVE system. SFPP will make an attempt to trace the gas line from the truck fill stand area to the SVE system, then cut and cap the line near the remediation pad.

The SVE system was shut down on September 19 for three days and again on September 27 through the end of the month as a result of mechanical issues with the SVE flow sensor. It is anticipated that KMEP's remediation contractor, Northstar, will replace the sensor in early October.

Total Fluids and Groundwater Extraction and Treatment System

The TFE/GWE system was operational for approximately 447 hours (62 percent uptime) from August 30, 2011, to September 30, 2011. The TFE/GWE wells in operation at the end of September include MW-SF-3, MW-SF-13, MW-SF-15, and MW-SF-16 in the south-central area; and GMW-O-15, GMW-O-18, and GMW-36 in the southeastern area. On September 6, 2011, the system was off on arrival due to a high level in the product tank. Groundwater from the product tank was drained, the media inside the OWS was replaced, and the OWS and the transfer tank were cleaned to prevent water from flowing into the product tank. The system was restarted on the same day.

On September 7, 2011, the system was off due to a high water level in the equalization tank. There was a decrease in the flow through the TBA treatment system bioreactors due to fine particulates clogging the filters and the lead polishing carbon vessel. ERI removed the fines from the lead polishing vessel; however, when trying to close the vessel, they could not get a proper seal due to a damaged cap. The lead carbon vessel was therefore bypassed and the secondary carbon vessel was utilized for polishing. The treatment system was restarted that same day. On September 13, 2011, the lead polishing vessel was replaced and filled with new carbon.

On September 9, 2011, the system was turned off so that KMEP's contractor, American Integrated Services, could make some repairs to the treatment system flow/totalizer meters and well boxes. Glue was applied and required at least 24 hours to cure; therefore, the system remained off during the weekend and was restarted on September 13, 2011.

Frequent shut-downs of the treatment system continued during September due to a high water levels in the equalization tank. It is believed that the reason for the frequent shutdowns was the presence of fine

particulates clogging the TBA treatment system bag filters and lead polishing vessel. The particulates are believed to be carbonates precipitating from the pre-treated groundwater. As of September 23, 2011, the pH of the pre-treated groundwater is being adjusted in order to eliminate the formation of these carbonate precipitates.

Total groundwater extracted, treated, and discharged under the NPDES permit in September 2011 was 609,250 gallons. The southeastern area influent quantities were not calculated for September 2011 since the southeastern area influent meter was inoperable. The electrical wiring for the new flow meter is being re-routed to an independent power source. It is anticipated that the new meter will be operational later this quarter.

The SVE and TFE/GWE systems are currently shut down in order to gauge monitoring and extraction wells under static conditions for the October 2011 semiannual groundwater sampling event. It is anticipated that both systems will be operational by October 14, 2011.

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

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**TABLE 1
REMEDATION 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 September 27, 2011 ¹	
						SVE	TFE/GWE
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	ON
	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	NA	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	ON	OFF
	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	OFF
	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	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	ON	OFF
	VEW-1	NA	NA	NA	SVE	OFF	---
	VEW-2	NA	NA	NA	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	NA	SVE; TFE	ON	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	ON	OFF
	MW-18 (MID)	6/10/1991	75.67	50 - 60	SVE	OFF	--
HW-2	NA	NA	NA	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. Based on information provided by SFPP, L.P.

Abbreviations

--- = not applicable

NA = 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