Table 3-13. Cr(VI) Concentrations, KW Reactor Area Plume, 2011 to 2013

Well Name	Current Well Use and P&T System[b]	Fall[a] 2011 Unfiltered Cr(VI)		Fall[a] 2012 Unfiltered Cr(VI)		Fall[a] 2013 Unfiltered Cr(VI)		Percent Change in Concentration (Negative = Decrease)	
		Date Collected	Unfiltered Concentration (µg/L)	Date Collected	Unfiltered Concentration (µg/L)	Date Collected	Unfiltered Concentration (µg/L)	2011 to 2012	2012 to 2013
199-K-34	M	10/11/2011	8	9/20/2012	2.6 (B)	11/4/2013	8	-68	208
199-K-106A	M	10/10/2011	2 (U)	11/5/2012	2 (U)	12/16/2013	8	NC	300
199-K-107A	M	10/6/2011	7.7	11/5/2012	15.3	11/22/2013	14.8	99	-3
199-K-108A	M	10/6/2011	2.3 (B)	10/29/2012	5.1	11/22/2013	4.1	122	-20
199-K-31	M	11/11/2011	3.7 (U)	11/13/2012	7.4	11/22/2013	7.2	100	-3
199-K-132	E/C	9/1/2011	22	9/4/2012	18	11/6/2013	12	-18	-33
199-K-137	M/E	10/31/2011	59	10/25/2012	33	9/16/2013	28	-44	-15
199-K-138	E/C	12/5/2011	20	9/4/2012	14	2/4/2013	14	-30	NC
199-K-139	E	11/7/2011	19	12/3/2012	16	9/5/2013	17	-16	6
199-K-140	E	--	--	12/5/2012	13.3	9/30/2013	22.3	--	68
199-K-158	I	2011 avg.	2.99	2012 avg.	2 (U)	2013 avg.	0.73	-33	-64
199-K-165	E	9/22/2011	200	10/22/2012	80	9/5/2013	320	-60	300
199-K-166	E	9/22/2011	138	9/4/2012	35	9/16/2013	48	-75	37
199-K-168	E	9/27/2011	53	10/25/2012	35.1	10/1/2013	30	-34	-14
199-K-173	M	9/20/2011	527	9/13/2012	231	9/5/2013	101	-56	-56
199-K-174	I	2011 avg.	2.99	2012 avg.	2 (U)	2013 avg.	0.73	-33	-64
199-K-175	I	2011 avg.	2.99	2012 avg.	2 (U)	2013 avg.	0.73	-33	-64
199-K-183	RI/FS	10/24/2011	3.7 (U)	10/26/2012	6.6	11/22/2013	8.6	78	30

Table 3-13. Cr(VI) Concentrations, KW Reactor Area Plume, 2011 to 2013

Well Name	Current Well Use and P&T System[b]	Fall[a] 2011 Unfiltered Cr(VI)		Fall[a] 2012 Unfiltered Cr(VI)		Fall[a] 2013 Unfiltered Cr(VI)		Percent Change in Concentration (Negative = Decrease)	
		Date Collected	Unfiltered Concentration (µg/L)	Date Collected	Unfiltered Concentration (µg/L)	Date Collected	Unfiltered Concentration (µg/L)	2011 to 2012	2012 to 2013
199-K-184	RI/FS	11/11/2011	28	12/20/2012	13.8	11/22/2013	15.1	-51	9
199-K-185	RI/FS	12/20/2011	3.3 (B)	--	--	12/6/2013	5.7	--	--
199-K-196	M	12/20/2011	15.1	11/1/2012	7.5	9/16/2013	32	-50	327
Effluent annual avg. (KW)	--	2011 avg.	2.99	2012 avg.	2 (U)	2013 avg.	0.73	-33	-64
AT-K-1-D	AT	--	--	9/24/2012	28.9	9/12/2013	6.1	--	-79
C7641	AT	--	--	10/10/2012	2 (U)	9/16/2013	2 (U)	--	NC
C7642	AT	9/6/2011	2 (U)	10/10/2012	8 (U)	9/16/2013	8 (U)	NC	NC
C7643	AT	9/6/2011	2 (U)	10/10/2012	2 (U)	9/16/2013	2 (U)	NC	NC

Note: The percent change in concentration is calculated using the following formula: ([Cr(VI)] year 2 – [Cr(VI)] year 1) / [Cr(VI)] year 1). Decreases in concentration are reported as negative values. Increases in concentration are reported as positive values. Where values are reported as nondetects (i.e., "U"-qualified data), the indicated detection limit was used as the value.

The average (avg.) results for injection wells are Cr(VI) concentrations from treated effluent.

Laboratory qualifiers: U = nondetect (shown with detection limit), B = detected above instrument or method detection limit but below contract-required detection limit.

a. Fall represents the period from September 1 to December 31 for the specified calendar year. The maximum concentration reported during this period is listed.
b. Well use: C = compliance, E = extraction, I = injection, M = monitoring, P = performance, AT = aquifer tube, E/C-KR4 = KR4 extraction/compliance.
E/C-KX = KX extraction/compliance.

RI/FS = remedial investigation feasibility study.
-- = sample was not collected or the analysis was not performed
Cr(VI) = hexavalent chromium
NC = no change in concentration; not calculated because results are both nondetect
P&T = pump-and-treat