

Table 3-13. Cr(VI) Concentrations, KE Reactor Area Plume, 2012 to 2014

Well Name	Current Well Use and P&T System ^b	Fall ^a 2012 Unfiltered Cr(VI)		Fall ^a 2013 Unfiltered Cr(VI)		Fall ^a 2014 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)	2012 to 2013	2013 to 2014
199-K-18	C	9/20/2012	25	10/1/2013	11.7	10/7/2014	Rejected	-53	—
199-K-32A	P	11/1/2012	9.7	12/6/2013	9.1	11/23/2014	Rejected	-6	—
199-K-32B	M	11/7/2012	6	12/6/2013	5.7	—	—	-5	—
199-K-23	M	10/31/2012	32.1	—	—	11/14/2014	2.2	—	—
199-K-11	M	11/5/2012	3.2 (B)	11/22/2013	6.2	11/23/2014	6.1	94	-2
199-K-110A	M	11/5/2012	4.5 (B)	11/22/2013	7	11/23/2014	6.7	56	-4
199-K-111A	P	10/29/2012	134	12/16/2013	556	11/23/2014	445	315	-20
199-K-120A	E/C-KR4	10/1/2012	8	11/21/2013	5.1	11/19/2014	6.2	-36	22
199-K-124A	M	10/29/2012	8	11/22/2013	4.6	12/2/2014	4.1	-43	-11
199-K-127	E/C-KR4	10/1/2012	5	11/20/2013	21	11/19/2014	3.3	320	-84
199-K-36	M	12/11/2012	131	12/6/2013	403	11/21/2014	296	208	-27
199-K-141	E-KX	9/4/2012	28	11/21/2013	29	12/2/2014	27	4	-7
199-K-142	M	11/5/2012	2 (U)	11/22/2013	2 (U)	11/23/2014	1.5 (U)	NC	NC
199-K-144	E/C-KR4	10/1/2012	49	10/2/2013	26	12/16/2014	21.1	-47	-19
199-K-145	E/C-KR4	10/1/2012	26	9/4/2013	21	12/3/2014	11	-19	-48
199-K-156	I-KX	2012 avg.	2.38	2013 avg.	0.6	2014 avg.	0.8	-75	33
199-K-157	P	10/23/2012	13	12/4/2013	9.8	11/23/2014	Rejected	-25	—

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		Date Collected	Unfiltered Concentration (µg/L)	Date Collected	Unfiltered Concentration (µg/L)	Date Collected	Unfiltered Concentration (µg/L)	2012 to 2013	2013 to 2014
199-K-162	E/C-KR4	10/1/2012	12	11/6/2013	4	11/19/2014	2.8	-67	-30
199-K-178	E/C-KX	10/25/2012	22.1	12/2/2013	40	12/2/2014	25	81	-38
199-K-181	C	11/5/2012	10.3	—	—	10/1/2014	16	—	—
199-K-186	RI/FS	10/23/2012	6.1	11/22/2013	10.9	11/23/2014	11.7	79	7
199-K-187	RI/FS	10/23/2012	4.7 (B)	11/22/2013	4.9	11/18/2014	3.5	4	-29
199-K-190	RI/FS	10/26/2012	14	12/6/2013	13.3	11/23/2014	10.4	-5	-22
199-K-191	RI/FS	10/26/2012	6.9	11/22/2013	10.4	11/18/2014	6.4	51	-38
199-K-192	RI/FS	10/26/2012	5.6	12/4/2013	5.9	11/23/2014	5.7	5	-3
199-K-197	M	—	—	—	—	—	—	—	—
199-K-198	M	—	—	—	—	10/2/2014	10	—	—
199-K-199	M	—	—	—	—	11/6/2014	11	—	—
199-K-200	RI/FS	12/4/2012	14.1	12/16/2013	13	12/2/2014	10.5	-8	-19
199-K-202	M	—	—	9/17/2013	21	10/13/2014	9	—	-57
C6242	AT	9/24/2012	2 (U)	9/17/2013	2.7	10/21/2014	2.2	35	-19
C6243	AT	9/24/2012	2 (U)	9/17/2013	2.4	10/21/2014	1.5 (U)	20	-38
C6244	AT	9/24/2012	2 (U)	9/17/2013	2.7	10/21/2014	1.5 (U)	35	-44
C6245	AT	10/3/2012	3.7 (B)	9/17/2013	7.5	10/20/2014	10	103	33
C6246	AT	10/3/2012	5.6	9/17/2013	5	10/20/2014	12	-11	140

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		Date Collected	Unfiltered Concentration (µg/L)	Date Collected	Unfiltered Concentration (µg/L)	Date Collected	Unfiltered Concentration (µg/L)	2012 to 2013	2013 to 2014
C6247	AT	10/3/2012	11.1	9/17/2013	9	10/20/2014	11	-19	22
C6248	AT	10/4/2012	3 (B)	9/19/2013	2.5	10/22/2014	2.6	-17	4
C6249	AT	10/4/2012	6.4	9/19/2013	5.3	10/22/2014	5.6	-17	6
C6250	AT	10/4/2012	5.6	9/19/2013	5	10/22/2014	5.6	-11	12
19-D	AT	10/3/2012	2 (U)	9/17/2013	2 (U)	10/21/2014	3.6	NC	80
AT-K-2-D	AT	10/10/2012	2 (U)	9/17/2013	2.2	9/10/2014	8 (U)	10	264
AT-K-3-M	AT	10/4/2012	49.8	9/19/2013	38.9	9/11/2014	30	-22	-23

Notes: The percent change in concentration is calculated using the following formula: $([\text{Cr(VI)}] \text{ year 2} - [\text{Cr(VI)}] \text{ year 1}) / [\text{Cr(VI)}] \text{ year 1}$. 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.

Aquifer tube nomenclature regarding relative depth: D = deep.

Laboratory qualifiers: U = nondetect (shown with detection limit), B = detected above instrument or method detection limit but below contract-required detection limit, and N = spiked sample recovery not within control limits.

a. Fall represents the period from October 1 to December 31 for the specified calendar year. The maximum concentration reported during this period is listed. If a higher result was reported in September, however, the September result is listed. If no Cr(VI) results were reported during this period, the result reported for the next closest date prior to October 1, but no earlier than September 1, is listed.

b. Well use: C = compliance, E = extraction, M = monitoring, P = performance, AT = aquifer tube, KX = expansion well.

-- = sample was not collected or the analysis was not performed

P&T = pump-and-treat

Cr(VI) = hexavalent chromium

RI/FS = remedial investigation/feasibility study

NC = no change in concentration; not calculated because results are both nondetect