

APPENDIX D4
EXAMPLE FOR POST-CLEANUP EVALUATION FOR LEAD

OVERVIEW

As discussed further in Section 5.5 of the PT&R guidance, following a completion of the remediation, a post-cleanup evaluation may be needed for sites where lead is a constituent of potential concern (COPC). The purpose of this evaluation is to assess the residual lead concentrations throughout the entire site, not just the area addressed by the cleanup activities.

The evaluation uses data collected during any confirmation sampling activities and during previous site investigations. For sites using containment/capping, the data set used for the evaluation is data from any soil not covered by the cap. For sites using excavation/ disposal, the data set used for the evaluation is the confirmation sampling data and soil data from other areas of the site that were not subject to the cleanup action.

A statistical summary of these data sets should be included in the completion report for cleanup action. The summary should include the minimum and maximum concentrations, the mean concentration, the 95 percent Upper Confidence Limit (UCL) on the mean, and the cleanup goal. The following table is an example of a statistical summary and is based on the data set summarized on the next page.

Example Post-Cleanup Evaluation for Lead

Site XYZ, Anytown, California

Statistical Summary of Lead Concentrations Remaining at the Site After Excavation

(Based on Data Sets B and C listed on next page)

No. of Samples	Mean	Median	Maximum	Minimum	Standard Deviation	95% UCL	Cleanup Goal
240	64.5	46.7	290.0	16.80	51.61	70.0	252

All concentration values in mg/Kg

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Lead Concentration (mg/Kg)								
DATA SET A Data from Excavated Areas Prior to Cleanup			DATA SET B Confirmation Data from Excavated Areas				DATA SET C Data from Areas of Site Not Addressed by Cleanup Action	
180	372	1420	18.7	36.0	58.9	100	16.8	
180	372	1500	18.8	36.1	59.4	100	16.9	
180	380	1500	18.9	37.0	59.5	100	17.5	
180	395	1600	19.0	37.0	62.0	100	17.5	
182	402	1600	19.2	37.0	62.5	101	17.7	
184	410	1600	19.5	37.5	62.8	106	18.3	
190	430	1600	19.8	37.7	63.8	106	18.4	
190	458	1600	20.2	38.0	64.0	110	18.4	
190	471	1700	20.4	39.0	65.0	110	18.5	
190	480	1700	21.3	39.0	67.1	110	19.6	
199	480	1700	21.5	39.4	69.6	110	19.8	
200	480	1700	21.6	39.4	69.6	110	19.9	
200	498	1880	21.8	39.5	70.0	112	20.0	
203	550	1900	22.0	40.0	70.7	115	20.1	
210	550	1900	22.2	41.0	71.0	117	20.1	
210	565	1920	24.4	41.0	71.2	117	20.2	
213	581	1940	24.5	42.0	71.7	120	20.2	
213	645	2000	24.6	42.0	71.9	120	20.4	
220	654	2000	25.6	42.0	72.9	120	20.8	
220	660	2100	26.0	42.7	73.0	125	20.9	
226	685	2210	26.0	43.4	73.5	128	21.0	
228	708	2300	26.0	43.9	75.0	130	21.2	
230	710	2620	26.7	46.1	75.2	130	22.3	
230	771	2700	27.3	46.2	76.9	136	22.5	
230	781	3000	27.5	47.1	78.0	137	23.8	
240	796	3410	28.0	47.3	78.2	140	23.9	
244	811	3500	28.2	47.4	79.0	141	24.0	
250	870	3520	28.3	48.1	80.3	145	24.1	
250	889	3870	29.0	48.3	81.0	150	24.3	
265	894	4100	29.6	49.2	81.4	150	24.7	
270	910	4100	29.7	49.5	81.5	150	25.0	
280	990	4500	29.7	50.0	81.6	155	25.6	
290	1000	4500	29.7	50.0	83.3	161	26.7	
290	1000	4680	30.0	50.0	83.5	162	27.0	
290	1000	5900	30.0	50.0	84.0	167	27.3	
298	1040	6000	30.1	50.5	85.0	170	27.5	
310	1050	6100	31.0	50.5	85.0	170	28.0	
310	1080	6400	31.1	51.0	85.7	170	28.4	
314	1100	6700	31.1	51.5	86.0	171	28.6	
327	1100	7300	31.9	52.6	86.2	171	28.8	
330	1100	7420	32.0	52.9	87.5	179	28.8	
330	1200	7600	32.0	53.8	88.1	180	29.0	
334	1200	7880	33.2	54.1	93.3	180	31.2	
340	1360	8110	34.0	54.2	94.7	250	32.5	
340	1360	8330	35.0	57.4	96.6	265	33.0	
360	1390	12500	35.8	58.0	98.0	270	33.4	
370	1400	14500	35.9	58.0	98.0	280	33.5	
370	1400	19700	36.0	58.2	99.0	290	34.0	