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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: June 7, 1992

SUBJECT: Comparison of Lead Results for First 59 Soil Samples Tested for Granite City, IL / ATSDR Study

FROM: David A Payne, Chief
LSS Section, CRL

TO: Brad Bradley, Environmental Engineer
IL/IN Remedial Response Branch
Office of Superfund.

The CLP lab retested the 1st 59 soil samples for cadmium (Cd) and lead (Pb) as well as for the remaining approx. 360 soils. ~~The~~ Lead results for the 1st 59 samples have been released as acceptable. Dorothy May of our staff has prepared Tables comparing the 2 sets of results. Only 1 sample ~~sa~~ has significantly different results (see E-43) We have asked the CLP ~~[illegible]~~ lab to confirm ~~to~~ which results is correct for E-43 and we should have this determination this week.

The Tables have field duplicates (F.D.) and lab duplicates (L.D.) noted. In the original analysis, lab duplicates were taken from the same sub-aliquot. For re-analyses, lab duplicates were different sub-aliquots from the sample jar.

~~For~~ We recommend the original results be used unchanged except for E-43. E-43 will undergo further confirmatory analysis.

c.c. D. May, CRL
Ecology & Environment

EPA FORM 1320-6 (REV. 3-76)

SAS 6864E — SDG E-01 (SOIL)

Sample #	Field Dup. Reduced	Lead D.P. 2nd Analysis (mg/kg)		Lead D.P. 1st Analysis (mg/kg)
E01		330 (303) L.D.		345 (347) L.D.
E02		565		575
E03		635		745
E04		194		196
E05		247		206
E06		801		768
E07		311		295
E08		929		938
E09		1100		1800
E10		722 (706) L.D.		703
E11		863		838 (845) L.D.
E12		1290		1180
E13		991		1030
E14		774		797
E15		624		488
E16		1090		905
E17		1140		1050
E18		396		505
E19		276		306
E20		311 (351) L.D.		351

F.D.

1st Analysis prepared on 12-2-91; analyzed on 12-5-91

2nd Analysis prepared on 4-8-92; analyzed on 4-10-92

prep'd. by D.M. May 6-3-92

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SAS 6864E — SDG E-21 (SOIL)

Sample #	Field Org. Reading	Lead 2nd Analysis (mg/kg)	Lead 1st Analysis (mg/kg)
E 21		376 (L.D. 406)	345 (L.D. 341)
E 22		1000	722
E 23		515	580
E 24		391 (F.D.)	364 (F.D.)
E 25		513	522
E 26		907	962
E 27		211	195
E 28		196 (L.D. 202) (F.D.)	205 (F.D.)
E 29		1670	1720
E 30		201	170
E 31		446	384 (L.D. 409)
E 32		428 (F.D.)	396 (F.D.)
E 33		209	191
E 34		549	695
E 35		583 ← ? →	388
E 36		238	215
E 37		282	291
E 38		449	455
E 39		376	335
E 40		1430 (L.D. 1728)	1570

1st Analysis prepared on 12-2-91; analyzed on 12-6-91

2nd Analysis prepared on 4-8-92; analyzed on 4-13-92

prep'd by D.M. May 6-3-92

SAS 6864E — SDG E-41 (SOIL)

Sample #	Field Dup. Rushed	Lead D.P. 2nd Analysis (mg/kg)	Lead D.P. 1st Analysis (mg/kg)
E41		416 (L.D. 404)	384 (L.D. 392)
E42		2280	2440
E43		216	3010
E44		245	236
E45		391	364
E46		340	248
E47		382	373
E48		164	308
E49		549	538
E50		596 (L.D. 442)	460
E51		590	544 (L.D. 532)
E52		232	223
E53		336	410
E54		2720	2600
E55		F.D. 157	F.D. 144
E56		171	151
E57		547	390
E58		283	311
E59		195 (L.D. 222)	210

1st Analysis prepared on 12-2-91; analyzed on 12-9-91

2nd Analysis prepared on 4-8-92; analyzed on 4-17-92

prep'd. by D.M.May 6-3-92 (E)