UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
CENTRAL REGIONAL LABORATORY
839 BESTGATE ROAD
ANNAPOLIS, MARYLAND 21401
(301) 266-9180

137491

DATE :April 11, 1989

SUBJECT: X-Ray Results for Lead for C & R Battery

FROM :Daniel K. Donnelly (3ES21) DKD
Chief, Laboratory Section

TO :Paul Leonard (3HW24)

Enclosed please find the Lead X-Ray report for C & R Battery. This report covers the samples which we received at CRL on March 24, 1989. Results for the other samples which we have received for this site will soon follow.

DKD:jr

Enclosure
a/s

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
CENTRAL REGIONAL LABORATORY
839 BESTGATE ROAD
ANNAPOLIS, MARYLAND 21401
(301) 266-9180

DATE : April 10, 1989

SUBJECT: X-Ray Analysis for C & R Battery
Superfund-Removal, (3/27/89 - 4/3/89), 890324-14, 17 - 26, 29 - 43

BAS

FROM : B. A. Sammons
Chemist

TO : Daniel K. Donnelly
Chief, Laboratory Section

THRU : Patricia F. Sosinski PFS
Team Leader, Metals Analysis Section

Analyses on C & R Battery Site samples were performed using a Kevex 700 x-ray fluorescence unit with secondary excitation. Samples were prepared by drying at 60° C, grinding, and sieving. Standards used had been provided by Dr. Thomas Spittler for use in the Lead Abatement Project.

A quantitative technique described by Dr. Spittler for use in the Lead Abatement Project was used. Calibration is based on the Mo secondary target. The concentration range is determined by acquiring until the Compton scatter peaks reach 60% on the screen for the standards and the unknowns. The ratio of the Compton peak to the Pb K-Beta peaks are reported in mg/Kg dry weight.

Percent solids were determined by a contractor, WESTON, Environmental Services Assistance Team. Percent solids are reported to allow for conversion to wet weight.

BAS:ad

cc: Peggy Zawodny
QCO

X-Ray Analysis for C & R Battery
Superfund-Removal, 890324-14, 17 - 26, 29 - 43

Sample Description:

Lab No.	Description
890324-14	C & R Battery, SO-33-13 (soil boring), Sta. SO-33
-17	C & R Battery, SO-32-00 (soil boring), Sta. SO-32
-18	C & R Battery, SO-32-03 (soil boring), Sta. SO-32
-19	C & R Battery, SO-32-06 (soil boring), Sta. SO-32
-20	C & R Battery, SO-32-09 (soil boring), Sta. SO-32
-21	C & R Battery, SO-32-13 (soil boring), Sta. SO-32
-22	C & R Battery, SO-31-00 (soil boring), Sta. SO-31
-23	C & R Battery, SO-31-03 (soil boring), Sta. SO-31
-24	C & R Battery, SO-31-06 (soil boring), Sta. SO-31
-25	C & R Battery, SO-31-09 (soil boring), Sta. SO-31
-26	C & R Battery, SO-31-13 (soil boring), Sta. SO-31
-29	C & R Battery, SO-36-00 (soil boring), Sta. SO-36
-30	C & R Battery, SO-36-03 (soil boring), Sta. SO-36
-31	C & R Battery, SO-36-06 (soil boring), Sta. SO-36
-32	C & R Battery, SO-36-09 (soil boring), Sta. SO-36
-33	C & R Battery, SO-36-13 (soil boring), Sta. SO-36
-34	C & R Battery, SO-35-00 (soil boring), Sta. SO-35
-35	C & R Battery, SO-35-03 (soil boring), Sta. SO-35
-36	C & R Battery, SO-35-06 (soil boring), Sta. SO-35
-37	C & R Battery, SO-35-09 (soil boring), Sta. SO-35
-38	C & R Battery, SO-35-13 (soil boring), Sta. SO-35
-39	C & R Battery, SO-33-00 (soil boring), Sta. SO-33
-40	C & R Battery, SO-33-00-D (soil boring), Sta. SO-33
-41	C & R Battery, SO-33-03 (soil boring), Sta. SO-33
-42	C & R Battery, SO-33-06 (soil boring), Sta. SO-33
-43	C & R Battery, SO-33-09 (soil boring), Sta. SO-33

AR301286

U.S. Environmental Protection Agency, Central Regional Laboratory

Project Name: C & R Battery X-Ray Fluorescence Analysis

Sample No.	Lead (mg/Kg)	% Solids
890324-14	<100	85%
-17	20,100	88%
-18	<100	81%
-19	<100	84%
-20	<100	84%
-21	<100	85%
-22	27,200	91%
-23	<100	81%
-24	<100	82%
-25	<100	84%
-26	<100	84%
-29	120	83%
-30	<100	84%
-31	<100	84%
-32	<100	79%
-33	<100	83%
-34	<100	84%
-35	<100	81%
-36	<100	82%
-37	<100	80%
-38	<100	83%
-39	190	84%
-40	200	84%
-41	<100	80%
-42	<100	84%
-43	<100	84%

AR301287

ENVIRON[illegible]TAL PROTECTION AGENCY
Office of Enforcement

RE[illegible]3
Curtis Bldg., 6th & Walnut Sts.
Philadelphia, Pennsylvania 19106

CHAIN OF CUSTODY RECORD

PROJ. NO.: 01-3LP4
PROJECT NAME: CER BATTERY
SAMPLERS: (Signature) Tony Rajah

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	LEAD (8 oz JAR)	X-RAY FLUORESCENCE LEAD (1L PE BOTTLE)	AQUEOUS BLANK		REMARKS TAG #
SO-33	03/22/89	0838		X	SO-33-13 (Soil Boring)	4 1	1			89032414	3-1024526
SO-00	03/22/89	0910		X	SO-00-20-F (FIELD BLANK AQUEOUS)	1		1		89032415	3-1024527
SO-00	03/22/89	0910		X	SO-00-20-R (RINSATE BLANK AQUEOUS)	1		1		89032416	3-1024528
SO-32	03/22/89	1019		X	SO-32-00 (Soil Boring)	1	1			89032417	3-1024529
SO-32	03/22/89	1021		X	SO-32-03 (" ")	1	1			89032418	3-1024530
SO-32	03/22/89	1027		X	SO-32-06 (" ")	1	1			89032419	3-1024531
SO-32	03/22/89	1032		X	SO-32-09 (" ")	1	1			89032420	3-1024532
SO-32	03/22/89	1043		X	SO-32-13 (" ")	1	1			89032421	3-1024533
SO-31	03/22/89	1342		X	SO-31-00 (" ")	1	1			89032422	3-1024534
SO-31	03/22/89	1344		X	SO-31-03 (" ")	1	1			89032423	3-1024535
SO-31	03/22/89	1402		X	SO-31-06 (" ")	1	1			89032424	3-1024536
SO-31	03/22/89	1407		X	SO-31-09 (" ")	1	1			89032425	3-1024537
SO-31	03/22/89	1416		X	SO-31-13 (" ")	1	1			89032426	3-1024538
SO-00	03/22/89	1445		X	SO-00-21-F (FIELD BLANK AQUEOUS)	1		1		89032427	3-1024539
SO-00	03/22/89	1445		X	SO-00-21-R (RINSATE BLANK AQUEOUS)	1		1		89032428	3-1024540

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Tony R. Rajah	03/23/89 1700	FEDERAL EXPRESS			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
		Janet Robinson	3-24-89 0942	SHIPPED to CRL FOR ANALYSIS AIRBILL # 9306255276	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

APR 3 1989

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ENVIRONM[illegible]L PROTECTION AGE[illegible]
Office of Enforcement

CHAIN OF CUSTODY RECORD

PROJ. NO.: 01-3LP4
PROJECT NAME: C&R BATTERY
SAMPLERS: (Signature) Terry R. Rogalski

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	LEAD - (B02 INC) X-RAY FLUORESCENCE				TAG #	REMARKS
SO-36	03/21/89	1115		X	SO-36-00 (Soil Boring)	1	1		89032429		3-1024501	
SO-36	03/21/89	1122		X	SO-36-03 (" ")	1	1		89032430		3-1024502	
SO-36	03/21/89	1132		X	SO-36-06 (" ")	1	1		89032431		3-1024503	
SO-36	03/21/89	1135		X	SO-36-09 (" ")	1	1		89032432		3-1024504	
SO-36	03/21/89	1146		X	SO-36-13 (" ")	1	1		89032433		3-1024505	
SO-35	03/21/89	1511		X	SO-35-00 (" ")	1	1		89032434		3-1024506	
SO-35	03/21/89	1515		X	SO-35-03 (" ")	1	1		89032435		3-1024507	
SO-35	03/21/89	1525		X	SO-35-06 (" ")	1	1		89032436		3-1024508	
SO-35	03/21/89	1530		X	SO-35-09 (" ")	1	1		89032437		3-1024509	
SO-35	03/21/89	1535		X	SO-35-13 (" ")	1	1		89032438		3-1024510	
SO-33	03/22/89	0809		X	SO-33-00 (" ")	1	1		89032439		3-1024521	
SO-33	03/22/89	0809		X	SO-33-00-D (DUP) (" ")	1	1		89032440		3-1024522	
SO-33	03/22/89	0811		X	SO-33-03 (Soil Boring)	1	1		89032441		3-1024523	
SO-33	03/22/89	0820		X	SO-33-06 (" ")	1	1		89032442		3-1024524	
SO-33	03/22/89	0830		X	SO-33-09 (" ")	1	1		89032443		3-1024525	

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Terry Rogalski	03/23/89 1700	FEDERAL EXPRESS			
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks SHIPPED to CRL FOR ANALYSIS	
		Janet Robinson	3-24-89 0942	AIRBILL #9306255276	

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