



FREEDOM OF INFORMATION
AND
PRIVACY ACTS

SUBJECT HENREY LEE LUCAS



FEDERAL BUREAU OF INVESTIGATION

Tehama County Sheriff's Department

RON E. KOENIG
SHERIFF

MAF
April 21, 1983

Federal Bureau of Investigation
Director of the F. B. I.
J. Edgar Hoover Building
Washington, D. C. 20535

Attn: *suspect*
Elemental Analysis Unit

b7C
Dear

Victim - Rashell Lee Ward deceased
Pursuant to our conversation, I am sending 25 sample bullets plus the homicide bullet for an element analysis.

As I explained on the phone, we are investigating a homicide involving a 14-year old white female, who was abducted while walking to her school on the 3rd of March, 1983, at approximately 0810 hours. She was subsequently bound, blindfolded with duct tape, taken to a rural area of the County and shot once in the back of the head. Pathological examination disclosed that she had been sexually assaulted.

The crime seems to be motivated by sexual reasons. The investigation has not disclosed any other reason for the homicide.

We do not have any physical evidence in regard to this case. There were no fingerprints on the tape removed from the deceased. The only item of physical evidence that we do have is the bullet removed from the victim. The bullet is of an unusual nature, in that it has a large grease groove near the base and a slight crimping groove approximately half-way up the bullet. The Department of Justice, California's Laboratory, narrowed the bullet down to a handcast bullet, made in a Lyman mold. However, we are unable to get a positive match on the bullet to the lead lot because the local lab does not have the capability.

DE-38

N 95-255509-1

16 MAY 26 1983

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F. B. I.
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We believe that the murder weapon was a .38 caliber Smith and Wesson that was stolen in a residential armed robbery two weeks prior to the homicide. The victim of that robbery does handload his own cartridges, as well as mold his own bullets. I have obtained from him several bullets which were cast by him in the same mold and they appear to be identical to that of the fatal bullet.

To date we have been unable to locate the murder weapon, therefore, it is necessary, we believe, to ask your Agency for assistance in doing the elemental analysis test in an attempt to verify that the fatal bullet is, in fact, a handcast bullet from the victim of the armed robbery. This information would greatly limit the scope of our investigation down to the known associates of the three individuals involved in the armed robbery. Two of the individuals involved in the armed robbery are still at large. Although we know their identities, we do not have sufficient evidence, at this time, to sustain an arrest, much less a conviction. However, proof that the murder bullet came from the residence of the armed robbery victim may give us the "twist" that we need in an effort to solve the homicide.

I appreciate any assistance that your unit may be able to provide and if you need any further information, please contact me at (916) 527-1551.

Sincerely,

RON E. KOENIG
Sheriff


Detective

b7C

Enclosures

SAMPLE	SE/AS KAT10
EG1	0.
Q1D	56.
Q1E	57.
Q1F	56.
K16A	153.
K16B	172.
K16C	140.
K17A	112.
K17B	125.
K17C	121.
K18A	136.
K18B	139.
K18C	109.
K19A	167.
K19B	165.
K19C	151.
K20A	161.
K20B	158.
K20C	157.
K21A	121.
K21B	140.
K21C	119.
K22A	152.
K22B	163.
K22C	149.
K23A	159.
K23B	154.
K23C	158.
K24A	112.
K24B	137.
K24C	126.
K25A	182.
K25B	171.
K25C	166.
S604A	18.
S604B	19.
S604C	19.
S626A	285.
S626B	196.
S626C	176.
BLANK	4.
EG2	2.

FBI LAB WASHINGTON D C

EXPERIMENT 1 9MAY83 1431 17

30427060 PB

PB

604A

SAMPLE TIME	9MAY83 0949 00	LOCATION	RT #4
ACQUISITION TIME	9MAY83 1139 05	TYPE	2 MIN
PRESET TIME	50 SEC	GEOMETRY	0.000
ELAPSED TIME	52 SEC	VOLUME	UG 12496 000
LIVE TIME	50 SEC	DETECTOR	GEL 15A

CALIBRATION DATE	9MAY83 0958 44	KEY/CH	0 500
		OFFSET	0 000

		NORMALIZATION CONSTANTS	GAMMA	
FWHM	5	A = 2 000	SLOPE	0 500 E-3
SENSITIVITY	16	B = 10 000	OFFSET	4.500
LIBRARY NUMBER	1	ENERGY TOLERANCE	1 25	
HALF-LIFE RATIO	8	ABUNDANCE LIMIT (%)	80 00	

294	72	62	75	85	62	67	60
301	51	67	73	66	55	68	59
308	61	67	59	66	61	67	56
315	70	66	55	76	73	73	146
322	190	120	84	48	74	59	57
329	59	58	49	50	74	45	69
336	59	67	61	62	58	71	50
343	57	47	62	51	61	57	45

CNTS/MICROGRAM SN

40.74

% SN IN STANDARD	5000
% PSD COUNTING	10
CENTROID CHANNEL	322
HALF-LIFE	40 MIN
BACKGROUND SPACING	20
BACKGROUND CHANNELS	10
PEAK CHANNELS	5
CONSTANTS	
E=2 7183	
LN2= 69315	

FBI LAB WASHINGTON D C

EXPERIMENT 1 9MAY83 1432:18

30427060 RB

PB

604B

SAMPLE TIME 9MAY83 0949 00
ACQUISITION TIME 9MAY83 1140 06
PRESET TIME 50 SEC
ELAPSED TIME 52 SEC
LIVE TIME 50 SEC

LOCATION RT #4
TYPE 2 MIN.
GEOMETRY 0.000
VOLUME UG 11003.000
DETECTOR GEL 15A

CALIBRATION DATE 9MAY83 0958 44
KEV/CH 0 500
OFFSET 0.000

FWHM 5
SENSITIVITY 16
LIBRARY NUMBER 1
HALF-LIFE RATIO 8

NORMALIZATION CONSTANTS
A = 2.000
B = 10.000
ENERGY TOLERANCE 1.25
ABUNDANCE LIMIT (%) 80.00

GAMMA
SLOPE 0.500 E-3
OFFSET 4.500

293	57	64	61	83	65	62	64
300	60	72	77	67	61	65	53
307	60	51	59	55	77	66	79
314	69	71	55	63	63	85	96
321	131	141	99	65	72	55	55
328	59	69	64	48	56	60	49
335	66	55	83	50	54	52	57
342	66	71	62	64	62	71	73

CNTS/MICROGRAM SN

32.31

% SN IN STANDARD 5000
% RSD COUNTING 12
CENTROID CHANNEL 321
HALF-LIFE 40 MIN.
BACKGROUND SPACING 20
BACKGROUND CHANNELS 10
PEAK CHANNELS 5
CONSTANTS.

E=2 7183
LN2= 69315

FBI LAB WASHINGTON D C

EXPERIMENT 1 9MAY83 1432 19

30427060 PB

PB

604C

SAMPLE TIME 9MAY83 0949 00
ACQUISITION TIME 9MAY83 1141 06
PPRESET TIME 50 SEC
ELAPSED TIME 52 SEC
LIVE TIME 50 SEC

LOCATION RT #4
TYPE 2 MIN
GEOMETRY 0 000
VOLUME UG 12158 000
DETECTOR GEL 15A

CALIBRATION DATE 9MAY83 0958 44

FEV'CH 0 500
OFFSET 0 000

		NORMALIZATION CONSTANTS		GAMMA		
FWHM	5	A =	2 000	SLOPE		0 500 E-2
SENSITIVITY	16	B =	10 000	OFFSET		4 500
LIBRARY NUMBER	1	ENERGY TOLERANCE	1 25			
HALF-LIFE RATIO	8	ABUNDANCE LIMIT (%)	80 00			

294	75	70	85	68	89	60	75
101	67	78	68	55	66	61	58
208	74	60	65	62	57	68	58
315	63	66	76	82	62	91	132
122	174	118	96	67	68	56	52
129	62	50	59	57	55	63	56
136	62	62	77	62	62	58	76
142	61	72	54	57	69	56	57

CNTS/MICROGRAM SN 38. 02

AVG. CNTS/MICROGRAM SN 37. 02

% SN IN STANDARD 5000
% PSD COUNTING 11
CENTROID CHANNEL 122
HALF-LIFE 40 MIN
BACKGROUND SPACING 20
BACKGROUND CHANNELS 10
PEAK CHANNELS 5
CONSTANTS
E=2.718
LN2= 69315

FBI LAB WASHINGTON D C

EXPERIMENT 1 9MAY83 1434 23

30427060 RB

PB

BG 1

SAMPLE TIME 9MAY83 0949.00
ACQUISITION TIME 9MAY83 1120 07
PRESET TIME 50 SEC
ELAPSED TIME 50 SEC
LIVE TIME 50 SEC

LOCATION RT #4
TYPE 2 MIN.
GEOMETRY 0.000
VOLUME UG 12000.000
DETECTOR GEL 15A

CALIBRATION DATE 9MAY83 0958 44

KEY/CH 0.500
OFFSET 0.000

FWHM 5
SENSITIVITY 16
LIBRARY NUMBER 1
HALF-LIFE RATIO 8

NORMALIZATION CONSTANTS
A = 2.000
B = 10.000
ENERGY TOLERANCE 1.25
ABUNDANCE LIMIT (%) 80.00

GAMMA
SLOPE 0.500 E-3
OFFSET 4.500

293	0	1	0	1	2	1	3
300	0	1	0	1	1	0	2
307	0	0	0	0	2	1	0
314	1	0	0	0	0	2	1
321	0	0	1	1	1	1	1
328	1	0	1	0	3	0	0
335	1	0	0	2	0	0	0
342	1	2	0	1	2	1	2

PPM SN IN SPECIMEN

000

MICROGRAMS SN IN SPECIMEN

000

CNTS/MICROGRAM SN 37.02
% RSD COUNTING 1186327695
CENTROID CHANNEL 321
HALF-LIFE 40 MIN.
BACKGROUND SPACING 20
BACKGROUND CHANNELS 10
PEAK CHANNELS 5
CONSTANTS
E=2 7183
LN2= 69315

FBI LAB WASHINGTON D C

EXPERIMENT 1 9MAY83 1436 28

30427060 RB

PB

Q1B

SAMPLE TIME 9MAY83 0949 00
ACQUISITION TIME 9MAY83 1122 08
PRESET TIME 50 SEC
ELAPSED TIME 55 SEC
LIVE TIME 50 SEC

LOCATION RT #4
TYPE 2 MIN
GEOMETRY 0.000
VOLUME UG 12631.000
DETECTOR GEL 15A

CALIBRATION DATE 9MAY83 0958 44

KEV/CH 0 500
OFFSET 0 000

FWHM 5
SENSITIVITY 16
LIBRARY NUMBER 1
HALF-LIFE RATIO 8

NORMALIZATION CONSTANTS
A = 2.000
B = 10.000
ENERGY TOLERANCE 1.25
ABUNDANCE LIMIT (%) 80 00

GAMMA
SLOPE 0.500 E-3
OFFSET 4.500

294	133	144	144	134	132	133	148
301	144	126	142	146	139	145	145
308	136	141	121	147	132	144	121
315	151	149	172	146	164	230	428
322	597	364	173	140	136	140	143
329	152	134	136	116	122	114	142
336	128	135	117	119	140	126	155
343	132	123	115	133	131	137	115

% SN IN SPECIMEN

1.4267

MICROGRAMS SN IN SPECIMEN

180.215

CNTS/MICROGRAM SN 37 02
% PSD COUNTING 05
CENTROID CHANNEL 322
HALF-LIFE 40 MIN
BACKGROUND SPACING 20
BACKGROUND CHANNELS 10
PEAK CHANNELS 5
CONSTANTS
E=2 7183
LN2= 69315

FBI LAB WASHINGTON D C

EXPERIMENT 1 9MAY83 1435 25

30427060 RB

PB

Q1A

SAMPLE TIME 9MAY83 0949 00 LOCATION RT #4
ACQUISITION TIME 9MAY83 1121 05 TYPE 2 MIN
PRESET TIME 50 SEC GEOMETRY 0.000
ELAPSED TIME 55 SEC VOLUME UG 12000.000
LIVE TIME 50 SEC DETECTOR GEL 15A

CALIBRATION DATE 9MAY83 0958 44 KEV/CH 0.500
OFFSET 0.000

FWHM 5 NORMALIZATION CONSTANTS GAMMA
SENSITIVITY 16 A = 2.000 SLOPE 0.500 E-3
LIBRARY NUMBER 1 B = 10.000 OFFSET 4.500
HALF-LIFE RATIO 8 ENERGY TOLERANCE 1.25
ABUNDANCE LIMIT (%) 80.00

294	158	152	132	124	124	119	125
301	131	134	126	136	136	138	118
308	138	154	121	121	127	125	117
315	142	145	136	136	157	215	429
322	576	362	167	124	133	127	131
329	113	114	130	113	120	124	139
336	109	124	120	138	131	127	132
343	128	150	111	136	129	133	116

% SN IN SPECIMEN

1.4435

MICROGRAMS SN IN SPECIMEN 174.384

CNTS/MICROGRAM SN 37.02
% PSD COUNTING 05
CENTROID CHANNEL 322
HALF-LIFE 40 MIN
BACKGROUND SPACING 20
BACKGROUND CHANNELS 10
PEAK CHANNELS 5
CONSTANTS
E=2.7183
LN2= 69315

FBI LAB WASHINGTON D C

EXPERIMENT 1 9MAY83 1437 30

30427060 RB

PB

Q1C

SAMPLE TIME	9MAY83 0949 00	LOCATION	RT #4
ACQUISITION TIME	9MAY83 1123 11	TYPE	2 MIN.
PRESET TIME	50 SEC	GEOMETRY	0.000
ELAPSED TIME	55 SEC	VOLUME	UG 12145 000
LIVE TIME	50 SEC	DETECTOR	GEL 15A

CALIBRATION DATE	9MAY83 0958 44	KEY/CH	0 500
		OFFSET	0.000

		NORMALIZATION CONSTANTS	GAMMA	
FWHM	5	A = 2.000	SLOPE	0.500 E-3
SENSITIVITY	16	B = 10.000	OFFSET	4.500
LIBRARY NUMBER	1	ENERGY TOLERANCE	1 25	
HALF-LIFE RATIO	8	ABUNDANCE LIMIT (%)	80 00	

294	136	122	138	131	134	127	142
301	117	135	134	115	131	135	111
308	120	121	122	140	129	137	136
315	160	141	140	170	140	206	381
322	521	365	141	127	140	126	137
329	134	128	119	121	117	126	118
336	127	144	123	131	111	139	134
343	116	118	120	117	130	130	110

% SN IN SPECIMEN

1.3486

MICROGRAMS SN IN SPECIMEN 163.796

CNTS/MICROGRAM SN	37 02
% PSD COUNTING	05
CENTROID CHANNEL	322
HALF-LIFE	40 MIN
BACKGROUND SPACING	20
BACKGROUND CHANNELS	10
PEAK CHANNELS	5
CONSTANTS	
E=2.7183	
LN2= 69315	

EXPERIMENT 1 9MAY83 1438 33

30427060 RB

PB

K1A

SAMPLE TIME	9MAY83 0949:00	LOCATION	RT #4
ACQUISITION TIME	9MAY83 1124.14	TYPE	2 MIN.
PRESET TIME	50 SEC	GEOMETRY	0.000
ELAPSED TIME	51 SEC	VOLUME	UG 13097.000
LIVE TIME	50 SEC	DETECTOR	GEL 15A

CALIBRATION DATE	9MAY83 0958 44	KEY/CH	0.500
		OFFSET	0.000

		NORMALIZATION CONSTANTS		GAMMA	
FWHM	5	A =	2.000	SLOPE	0.500 E-3
SENSITIVITY	16	B =	10.000	OFFSET	4.500
LIBRARY NUMBER	1	ENERGY TOLERANCE	1.25		
HALF-LIFE RATIO	8	ABUNDANCE LIMIT (%)	80.00		

293	49	45	55	35	52	50	35
300	45	34	45	36	45	45	32
307	44	49	41	49	33	50	35
314	38	30	39	41	37	56	59
321	124	184	121	50	29	44	44
328	22	44	45	36	35	37	36
325	38	43	38	31	43	41	46
342	35	46	33	44	40	36	32

% SN IN SPECIMEN

. 4489

MICROGRAMS SN IN SPECIMEN

57.751

CNTS/MICROGRAM SN	37.02
% PSD COUNTING	8
CENTROID CHANNEL	321
HALF-LIFE	40 MIN.
BACKGROUND SPACING	20
BACKGROUND CHANNELS	10
PEAK CHANNELS	5
CONSTANTS	
E=2 7183	
LN2= 69315	

FBI LAB WASHINGTON D C

EXPERIMENT 1 9MAY83 1439 35

30427060 RB

PB

K1B

SAMPLE TIME 9MAY83 0949 00
ACQUISITION TIME 9MAY83 1125 14
PRESET TIME 50 SEC
ELAPSED TIME 51 SEC
LIVE TIME 50 SEC

LOCATION RT #4
TYPE 2 MIN.
GEOMETRY 0.000
VOLUME UG 12210.000
DETECTOR GEL 15A

CALIBRATION DATE 9MAY83 0958 44
KEY/CH 0.500
OFFSET 0.000

FWHM 5
SENSITIVITY 16
LIBRARY NUMBER 1
HALF-LIFE RATIO 8

NORMALIZATION CONSTANTS
A = 2.000
B = 10.000
ENERGY TOLERANCE 1.25
ABUNDANCE LIMIT (%) 80.00

GAMMA
SLOPE 0.500 E-3
OFFSET 4.500

294	35	48	35	34	47	34	19
301	32	37	34	40	46	30	31
308	41	30	45	29	38	31	35
315	32	35	42	38	39	54	105
322	169	127	61	30	33	37	33
329	37	27	41	32	39	35	29
336	38	41	40	34	36	36	41
343	27	29	36	31	34	38	31

% SN IN SPECIMEN

4946

MICROGRAMS SN IN SPECIMEN

60.397

CNTS/MICROGRAM SN 37 02
% RSD COUNTING 7
CENTROID CHANNEL 322
HALF-LIFE 43 MIN
BACKGROUND SPACING 20
BACKGROUND CHANNELS 10
PEAK CHANNELS 5
CONSTANTS
E=2 7183
LN2= 69315

EXPERIMENT 1 9MAY83 1440 37

30427060 RB

PB

K1C

SAMPLE TIME	9MAY83 0949 00	LOCATION	RT #4
ACQUISITION TIME	9MAY83 1126 13	TYPE	2 MIN
PRESET TIME	50 SEC	GEOMETRY	0.000
ELAPSED TIME	51 SEC	VOLUME	UG 12390.000
LIVE TIME	50 SEC	DETECTOR	GEL 15A

CALIBRATION DATE	9MAY83 0958 44	KEY/CH	0 500
		OFFSET	0.000

		NORMALIZATION CONSTANTS	GAMMA	
FWHM	5	A = 2.000	SLOPE	0.500 E-3
SENSITIVITY	16	B = 10.000	OFFSET	4.500
LIBRARY NUMBER	1	ENERGY TOLERANCE	1.25	
HALF-LIFE RATIO	8	ABUNDANCE LIMIT (%)	80.00	

294	30	30	34	34	27	25	37
301	28	42	36	31	45	49	35
308	37	41	29	33	47	45	37
315	37	41	42	54	46	65	109
322	201	130	49	45	34	44	33
329	39	33	29	31	35	34	44
336	46	35	31	32	37	29	41
343	36	31	33	36	32	41	36

% SN IN SPECIMEN

. 5377

MICROGRAMS SN IN SPECIMEN 66.625

CNTS/MICROGRAM SN	37.02
% RSD COUNTING	7
CENTROID CHANNEL	322
HALF-LIFE	40 MIN
BACKGROUND SPACING	20
BACKGROUND CHANNELS	10
PEAK CHANNELS	5
CONSTANTS	
E=2 7183	
LN2= 69315	

FBI LAB WASHINGTON D C

EXPERIMENT 1 9MAY83 1441 40

30427060 RB

PB

K2A

SAMPLE TIME 9MAY83 0949 00
ACQUISITION TIME 9MAY83 1127 12
PRESET TIME 50 SEC
ELAPSED TIME 51 SEC
LIVE TIME 50 SEC

LOCATION RT #4
TYPE 2 MIN
GEOMETRY 0.000
VOLUME UG 12206 000
DETECTOR GEL 15A

CALIBRATION DATE 9MAY83 0958 44

KEY/CH 0.500
OFFSET 0.000

		NORMALIZATION CONSTANTS	GAMMA	
FWHM	5	A = 2.000	SLOPE	0.500 E-3
SENSITIVITY	16	B = 10.000	OFFSET	4.500
LIBRARY NUMBER	1	ENERGY TOLERANCE	1.25	
HALF-LIFE RATIO	8	ABUNDANCE LIMIT (%)	80.00	

293	37	42	31	25	33	37	47
300	43	33	29	39	34	52	32
307	40	38	37	30	28	41	34
314	45	31	39	42	42	46	48
321	100	168	90	41	38	37	36
328	37	37	33	32	32	28	33
335	28	40	30	41	34	37	36
342	37	39	28	26	45	35	26

% SN IN SPECIMEN

3873

MICROGRAMS SN IN SPECIMEN

47 274

CNTS/MICROGRAM SN 37 02
% PSD COUNTING 10
CENTROID CHANNEL 321
HALF-LIFE 40 MIN
BACKGROUND SPACING 20
BACKGROUND CHANNELS 10
PEAK CHANNELS 5
CONSTANTS
E=2.7183
LN2= 69315

FBI LAB WASHINGTON D C

EXPERIMENT 1 9MAY83 1442 42

30427060 RB

PB

K2B

SAMPLE TIME 9MAY83 0949 00
ACQUISITION TIME 9MAY83 1128 11
PRESET TIME 50 SEC
ELAPSED TIME 51 SEC
LIVE TIME 50 SEC

LOCATION RT #4
TYPE 2 MIN.
GEOMETRY 0.000
VOLUME UG 12696.000
DETECTOR GEL 15A

CALIBRATION DATE 9MAY83 0958 44

KEY/CH 0.500
OFFSET 0.000

		NORMALIZATION CONSTANTS	GAMMA	
FWHM	5	A = 2.000	SLOPE	0.500 E-3
SENSITIVITY	16	B = 10.000	OFFSET	4.500
LIBRARY NUMBER	1	ENERGY TOLERANCE		1.25
HALF-LIFE RATIO	8	ABUNDANCE LIMIT (%)		80.00

294	43	38	51	43	39	46	47
301	41	40	43	52	36	37	40
308	43	53	37	46	38	36	30
315	45	36	31	38	42	54	101
322	148	88	59	43	41	40	40
329	32	33	38	40	26	31	36
336	34	29	23	42	46	51	33
343	37	45	45	27	35	36	42

% SN IN SPECIMEN

. 3324

MICROGRAMS SN IN SPECIMEN

42.202

CNTS/MICROGRAM SN 37 02
% PSD COUNTING 11
CENTROID CHANNEL 322
HALF-LIFE 40 MIN
BACKGROUND SPACING 20
BACKGROUND CHANNELS 10
PEAK CHANNELS 5
CONSTANTS
E=2 7183
LN2= 69315

FBI LAB WASHINGTON D C

EXPERIMENT 1 9MAY83 1443 45

30427060 RB

PB

K2C

SAMPLE TIME	9MAY83 0949 00	LOCATION	RT #4
ACQUISITION TIME	9MAY83 1129.10	TYPE	2 MIN
PRESET TIME	50 SEC	GEOMETRY	0.000
ELAPSED TIME	51 SEC	VOLUME	UG 12834.000
LIVE TIME	50 SEC	DETECTOR	GEL 15A

CALIBRATION DATE	9MAY83 0958 44	KEY/CH	0.500
		OFFSET	0.000

		NORMALIZATION CONSTANTS	GAMMA	
FWHM	5	A = 2.000	SLOPE	0.500 E-3
SENSITIVITY	16	B = 10.000	OFFSET	4.500
LIBRARY NUMBER	1	ENERGY TOLERANCE	1.25	
HALF-LIFE RATIO	8	ABUNDANCE LIMIT (%)	80.00	

294	32	26	44	49	37	42	35
301	42	40	42	43	31	45	42
308	37	37	39	27	37	45	41
315	36	33	43	42	37	57	100
322	171	109	48	37	34	34	31
329	47	42	42	43	39	33	22
336	40	36	37	37	43	41	30
343	40	35	55	41	35	28	47

% SN IN SPECIMEN

4166

MICROGRAMS SN IN SPECIMEN 53.466

CNTS/MICROGRAM SN	37.02
% RSD COUNTING	3
CENTROID CHANNEL	322
HALF-LIFE	40 MIN
BACKGROUND SPACING	20
BACKGROUND CHANNELS	10
PEAK CHANNELS	5
CONSTANTS	
E=2.7183	
LN2= 69315	

EXPERIMENT 1 9MAY83 1444 47

30427060 RB

FB

K3A

SAMPLE TIME	9MAY83 0949.00	LOCATION	RT #4
ACQUISITION TIME	9MAY83 1130.09	TYPE	2 MIN.
PRESET TIME	50 SEC	GEOMETRY	0 000
ELAPSED TIME	51 SEC	VOLUME	UG 12857 000
LIVE TIME	50 SEC	DETECTOR	GEL 15A

CALIBRATION DATE	9MAY83 0958 44	KEY/CH	0 500
		OFFSET	0 000

		NORMALIZATION CONSTANTS	GAMMA	
FWHM	5	A = 2 000	SLOPE	0.500 E-3
SENSITIVITY	16	B = 10.000	OFFSET	4.500
LIBRARY NUMBER	1	ENERGY TOLERANCE	1.25	
HALF-LIFE RATIO	8	ABUNDANCE LIMIT (%)	80 00	

294	41	44	51	57	54	43	54
301	33	48	46	51	35	43	49
308	43	53	37	48	47	41	36
315	65	41	46	36	42	46	102
322	148	85	52	37	52	49	46
329	43	38	46	27	40	42	44
336	47	33	46	47	36	49	45
343	50	45	41	37	46	49	40

% SN IN SPECIMEN

. 2988

MICROGRAMS SN IN SPECIMEN 38.428

CNTS/MICROGRAM SN	37 02
% RSD COUNTING	12
CENTROID CHANNEL	322
HALF-LIFE	40 MIN
BACKGROUND SPACING	20
BACKGROUND CHANNELS	10
PEAK CHANNELS	5
CONSTANTS	
E=2 7183	
LN2= 69315	

FBI LAB WASHINGTON D C

EXPERIMENT 1 9MAY83 1445 50

30427060 RB

PB

K3B

SAMPLE TIME 9MAY83 0949.00
ACQUISITION TIME 9MAY83 1131 09
PRESET TIME 50 SEC
ELAPSED TIME 51 SEC
LIVE TIME 50 SEC

LOCATION RT #4
TYPE 2 MIN.
GEOMETRY 0.000
VOLUME UG 12500.000
DETECTOR GEL 15A

CALIBRATION DATE 9MAY83 0958 44

KEY/CH 0 500
OFFSET 0.000

FWHM 5
SENSITIVITY 16
LIBRARY NUMBER 1
HALF-LIFE RATIO 8

NORMALIZATION CONSTANTS
A = 2.000
B = 10.000
ENERGY TOLERANCE 1.25
ABUNDANCE LIMIT (%) 80 00

GAMMA
SLOPE 0.500 E-3
OFFSET 4.500

294	45	54	38	37	52	38	50
301	45	39	46	40	51	45	35
308	43	57	41	51	39	46	42
315	50	57	44	51	47	59	112
322	152	81	54	36	36	51	52
329	40	50	49	28	48	36	53
336	40	40	39	46	32	37	28
343	40	43	43	33	33	37	29

% SN IN SPECIMEN

3946

MICROGRAMS SN IN SPECIMEN

49 329

CNTS/MICROGRAM SN 37.02
% RSD COUNTING 10
CENTROID CHANNEL 322
HALF-LIFE 40 MIN
BACKGROUND SPACING 20
BACKGROUND CHANNELS 10
PEAK CHANNELS 5
CONSTANTS
E=2 7183
LN2= 69315

EXPERIMENT 1 9MAY83 1446 52

30427060 RB

PB

K3C

SAMPLE TIME 9MAY83 0949 00
 ACQUISITION TIME 9MAY83 1132 09
 PRESET TIME 50 SEC
 ELAPSED TIME 51 SEC
 LIVE TIME 50 SEC

LOCATION RT #4
 TYPE 2 MIN.
 GEOMETRY 0.000
 VOLUME UG 12676.000
 DETECTOR GEL 15A

CALIBRATION DATE 9MAY83 0958 44
 KEV/CH 0.500
 OFFSET 0.000

FWHM 5
 SENSITIVITY 16
 LIBRARY NUMBER 1
 HALF-LIFE RATIO 8

NORMALIZATION CONSTANTS
 A = 2.000
 B = 10.000
 ENERGY TOLERANCE 1.25
 ABUNDANCE LIMIT (%) 80.00

GAMMA
 SLOPE 0.500 E-3
 OFFSET 4.500

293	45	48	35	43	36	44	37
300	43	44	47	32	36	46	42
307	38	55	48	47	37	45	45
314	51	45	41	46	61	44	69
321	102	163	113	36	42	34	36
328	40	26	41	46	39	54	41
335	26	48	43	45	42	52	39
342	50	53	33	41	48	37	43

% SN IN SPECIMEN

. 4166

MICROGRAMS SN IN SPECIMEN 52.018

CNTS/MICROGRAM SN 37 02
 % RSD COUNTING 10
 CENTROID CHANNEL 321
 HALF-LIFE 43 MIN.
 BACKGROUND SPACING 20
 BACKGROUND CHANNELS 10
 PEAK CHANNELS 5
 CONSTANTS
 E=2 7183
 LN2= 69315

FBI LAB WASHINGTON D C

EXPERIMENT 1 9MAY83 1447 55

30427060 RB

PB

K4A

SAMPLE TIME 9MAY83 0949 00
ACQUISITION TIME 9MAY83 1133 08
PRESET TIME 50 SEC
ELAPSED TIME 51 SEC
LIVE TIME 50 SEC

LOCATION RT #4
TYPE 2 MIN
GEOMETRY 0.000
VOLUME UG 12670.000
DETECTOR GEL 15A

CALIBRATION DATE 9MAY83 0958 44

KEY/CH 0.500
OFFSET 0.000

FWHM 5
SENSITIVITY 16
LIBRARY NUMBER 1
HALF-LIFE RATIO 8

NORMALIZATION CONSTANTS
A = 2.000
B = 10.000
ENERGY TOLERANCE 1.25
ABUNDANCE LIMIT (%) 80.00

GAMMA
SLOPE 0.500 E-3
OFFSET 4.500

293	44	54	42	42	44	39	44
300	49	39	50	51	49	48	53
307	45	53	42	41	39	55	40
314	49	42	34	54	42	55	55
321	101	139	96	44	50	38	38
328	44	50	46	36	40	36	34
335	36	44	53	44	38	48	59
342	43	41	47	42	38	45	36

% SN IN SPECIMEN

3358

MICROGRAMS SN IN SPECIMEN

42.557

CNTS/MICROGRAM SN 37.02
% RSD COUNTING 12
CENTROID CHANNEL 321
HALF-LIFE 40 MIN
BACKGROUND SPACING 20
BACKGROUND CHANNELS 10
PEAK CHANNELS 5
CONSTANTS
E=2.7183
LN2=69315

EXPERIMENT 1 9MAY83 1448 58

30427060 RB

PB

K4B

SAMPLE TIME 9MAY83 0949 00
 ACQUISITION TIME 9MAY83 1134 08
 PRESET TIME 50 SEC
 ELAPSED TIME 51 SEC
 LIVE TIME 50 SEC

LOCATION RT #4
 TYPE 2 MIN
 GEOMETRY 0.000
 VOLUME UG 13306.000
 DETECTOR GEL 15A

CALIBRATION DATE 9MAY83 0958 44

KEV/CH 0 500
 OFFSET 0 000

		NORMALIZATION CONSTANTS		GAMMA	
FWHM	5	A =	2.000	SLOPE	0.500 E-3
SENSITIVITY	16	B =	10.000	OFFSET	4.500
LIBRARY NUMBER	1	ENERGY TOLERANCE	1.25		
HALF-LIFE RATIO	8	ABUNDANCE LIMIT (%)	80.00		

294	49	65	39	36	44	37	49
301	52	40	44	43	49	59	42
308	49	35	45	26	50	37	46
315	43	46	47	43	46	61	127
322	142	86	51	49	39	52	36
329	41	44	41	40	47	48	43
336	42	41	33	37	50	44	42
343	51	44	44	55	42	40	42

% SN IN SPECIMEN

3594

MICROGRAMS SN IN SPECIMEN

47.033

CNTS/MICROGRAM SN 37 02
 % RSD COUNTING 11
 CENTROID CHANNEL 322
 HALF-LIFE 40 MIN
 BACKGROUND SPACING 20
 BACKGROUND CHANNELS 10
 PEAK CHANNELS 5
 CONSTANTS
 E=2 7183
 LN2= 69315

FBI LAB WASHINGTON D C

EXPERIMENT 1 9MAY83 1450 00

30427060 RB

PB

K4C

SAMPLE TIME 9MAY83 0949 00
ACQUISITION TIME 9MAY83 1135 08
PRESET TIME 50 SEC
ELAPSED TIME 51 SEC
LIVE TIME 50 SEC

LOCATION RT #4
TYPE 2 MIN.
GEOMETRY 0.000
VOLUME UG 12603.000
DETECTOR GEL 15A

CALIBRATION DATE 9MAY83 0958 44

KEY/CH 0.500
OFFSET 0.000

FWHM 5
SENSITIVITY 16
LIBRARY NUMBER 1
HALF-LIFE RATIO 8

NORMALIZATION CONSTANTS
A = 2.000
B = 10.000
ENERGY TOLERANCE 1 25
ABUNDANCE LIMIT (%) 80.00

GAMMA
SLOPE 0.500 E-3
OFFSET 4.500

294	52	52	56	50	43	39	38
301	44	48	49	30	43	44	48
308	48	55	45	48	41	34	34
315	48	47	43	40	41	61	117
322	146	89	47	50	44	29	41
329	55	34	36	34	39	44	43
336	33	37	49	45	35	31	34
343	43	45	40	49	49	47	38

% SN IN SPECIMEN

4251

MICROGRAMS SN IN SPECIMEN

53.587

CNTS/MICROGRAM SN 37.02
% RSD COUNTING 10
CENTROID CHANNEL 322
HALF-LIFE 40 MIN.
BACKGROUND SPACING 20
BACKGROUND CHANNELS 10
PEAK CHANNELS 5
CONSTANTS
E=2 7183
LN2= 69315

FBI LAB WASHINGTON D C

EXPERIMENT 1 9MAY83 1451 03

30427060 RB

PB

K5A

SAMPLE TIME	9MAY83 0949 00	LOCATION	RT #4
ACQUISITION TIME	9MAY83 1136 08	TYPE	2 MIN
PRESET TIME	50 SEC	GEOMETRY	0 000
ELAPSED TIME	51 SEC	VOLUME	UG 12963 000
LIVE TIME	50 SEC	DETECTOR	GEL 15A

CALIBRATION DATE	9MAY83 0958 44	KEV/CH	0 500
		OFFSET	0. 000

		NORMALIZATION CONSTANTS	GAMMA	
FWHM	5	A = 2 000	SLOPE	0. 500 E-3
SENSITIVITY	16	B = 10. 000	OFFSET	4 500
LIBRARY NUMBER	1	ENERGY TOLERANCE	1 25	
HALF-LIFE RATIO	8	ABUNDANCE LIMIT (%)	80 00	

293	37	50	50	42	39	45	41
300	30	35	48	38	34	47	41
307	33	38	31	33	32	35	35
314	31	32	39	30	43	47	62
321	104	157	91	45	42	44	33
328	34	48	35	39	36	36	37
335	40	38	40	40	30	36	46
342	35	30	46	34	35	37	32

% SN IN SPECIMEN

4447

MICROGRAMS SN IN SPECIMEN 57. 651

CNTS/MICROGRAM SN	37 02
% RSD COUNTING	9
CENTROID CHANNEL	321
HALF-LIFE	40 MIN
BACKGROUND SPACING	20
BACKGROUND CHANNELS	10
PEAK CHANNELS	5
CONSTANTS	
E=2 7183	
LN2= 69315	

FBI LAB WASHINGTON D C

EXPERIMENT 1 9MAY83 1452.05

30427060 RB

PB

K5B

SAMPLE TIME 9MAY83 0949:00 LOCATION RT #4
ACQUISITION TIME 9MAY83 1137:07 TYPE 2 MIN.
PRESET TIME 50 SEC GEOMETRY 0.000
ELAPSED TIME 51 SEC VOLUME UG 12834.000
LIVE TIME 50 SEC DETECTOR GEL 15A

CALIBRATION DATE 9MAY83 0958.44 KEY/CH 0 500
OFFSET 0.000

NORMALIZATION CONSTANTS GAMMA
FWHM 5 A = 2.000 SLOPE 0.500 E-3
SENSITIVITY 16 B = 10.000 OFFSET 4.500
LIBRARY NUMBER 1 ENERGY TOLERANCE 1.25
HALF-LIFE RATIO 8 ABUNDANCE LIMIT (%) 80.00

293	35	40	33	50	44	41	34
300	37	50	32	45	31	36	40
307	37	48	43	43	42	34	34
314	32	44	30	37	50	41	59
321	110	145	83	34	27	42	30
328	37	36	29	44	44	38	41
335	29	38	42	29	43	42	39
342	36	43	51	41	39	43	29

% SN IN SPECIMEN

3925

MICROGRAMS SN IN SPECIMEN

50.185

CNTS/MICROGRAM SN 37.02
% RSD COUNTING 10
CENTROID CHANNEL 321
HALF-LIFE 40 MIN.
BACKGROUND SPACING 20
BACKGROUND CHANNELS 10
PEAK CHANNELS 5
CONSTANTS
E=2 7183
LN2= 69315

EXPERIMENT 1 9MAY83 1453 08

30427060 RB

PB

K5C

SAMPLE TIME 9MAY83 0949 00
 ACQUISITION TIME 9MAY83 1138 06
 PRESET TIME 50 SEC
 ELAPSED TIME 51 SEC
 LIVE TIME 50 SEC

LOCATION RT #4
 TYPE 2 MIN.
 GEOMETRY 0.000
 VOLUME UG 13192.000
 DETECTOR GEL 15A

CALIBRATION DATE 9MAY83 0958 44
 KEY/CH 0.500
 OFFSET 0.000

FWHM 5
 SENSITIVITY 16
 LIBRARY NUMBER 1
 HALF-LIFE RATIO 8

NORMALIZATION CONSTANTS
 A = 2.000
 B = 10.000
 ENERGY TOLERANCE 1.25
 ABUNDANCE LIMIT (%) 80.00

GAMMA
 SLOPE 0.500 E-3
 OFFSET 4.500

294	29	38	45	39	38	34	47
301	42	43	41	53	32	36	42
308	32	31	30	49	38	35	36
315	50	37	37	48	50	69	116
322	142	92	57	40	46	27	46
329	45	29	30	34	40	36	35
336	39	44	27	51	38	38	43
343	31	45	39	31	30	35	48

% SN IN SPECIMEN

. 4344

MICROGRAMS SN IN SPECIMEN

57.310

CNTS/MICROGRAM SN 37 02
 % RSD COUNTING 10
 CENTROID CHANNEL 322
 HALF-LIFE 40 MIN.
 BACKGROUND SPACING 20
 BACKGROUND CHANNELS 10
 PEAK CHANNELS 5
 CONSTANTS
 E=2 7183
 LN2= 69315

FBI LAB WASHINGTON D C

EXPERIMENT 1 9MAY83 1454 10

30427060 RB

PB

604A

SAMPLE TIME 9MAY83 0949 00
ACQUISITION TIME 9MAY83 1139 05
PRESET TIME 50 SEC
ELAPSED TIME 52 SEC
LIVE TIME 50 SEC

LOCATION RT #4
TYPE 2 MIN.
GEOMETRY 0.000
VOLUME UG 12496.000
DETECTOR GEL 15A

CALIBRATION DATE 9MAY83 0958 44
KEY/CH 0.500
OFFSET 0.000

FWHM 5
SENSITIVITY 16
LIBRARY NUMBER 1
HALF-LIFE RATIO 8

NORMALIZATION CONSTANTS
A = 2.000
B = 10.000
ENERGY TOLERANCE 1 25
ABUNDANCE LIMIT (%) 80 00

GAMMA
SLOPE 0.500 E-3
OFFSET 4.500

294	72	62	75	85	62	67	60
301	51	67	73	66	55	68	59
308	61	67	59	66	61	67	56
315	70	66	55	76	73	73	146
322	190	120	84	48	74	59	57
329	59	58	49	50	74	45	69
336	59	67	61	62	58	71	50
343	57	47	62	51	61	57	45

% SN IN SPECIMEN

5502

MICROGRAMS SN IN SPECIMEN 68.753

CNTS/MICROGRAM SN 37 02
% RSD COUNTING 10
CENTROID CHANNEL 322
HALF-LIFE 40 MIN.
BACKGROUND SPACING 20
BACKGROUND CHANNELS 10
PEAK CHANNELS 5
CONSTANTS
E=2 7183
LN2= 69315

EXPERIMENT 1 9MAY83 1455 13

30427060 RB

PB

604B

SAMPLE TIME 9MAY83 0949 00
 ACQUISITION TIME 9MAY83 1140 06
 PRESET TIME 50 SEC
 ELAPSED TIME 52 SEC
 LIVE TIME 50 SEC

LOCATION RT #4
 TYPE 2 MIN
 GEOMETRY 0.000
 VOLUME UG 11893 000
 DETECTOR GEL 15A

CALIBRATION DATE 9MAY83 0958 44

KEV/CH 0 500
 OFFSET 0.000

		NORMALIZATION CONSTANTS		GAMMA		
FWHM	5	A =	2.000	SLOPE	0 500 E-3	
SENSITIVITY	16	B =	10.000	OFFSET	4.500	
LIBRARY NUMBER	1	ENERGY TOLERANCE	1.25			
HALF-LIFE RATIO	8	ABUNDANCE LIMIT (%)	80.00			

293	57	64	61	83	65	62	64
300	60	72	77	67	61	65	53
307	60	51	59	55	77	66	79
314	69	71	55	63	63	85	96
321	131	141	99	65	72	55	55
328	59	69	64	48	56	60	49
335	66	55	83	50	54	52	57
342	66	71	62	64	62	71	73

% SN IN SPECIMEN

. 4363

MICROGRAMS SN IN SPECIMEN

51.052

CNTS/MICROGRAM SN 37 02
 % RSD COUNTING 12
 CENTROID CHANNEL 32.
 HALF-LIFE 43 MIN
 BACKGROUND SPACING 20
 BACKGROUND CHANNELS 10
 PEAK CHANNELS 5
 CONSTANTS
 E=2 7183
 LN2= 69315

FBI LAB WASHINGTON D.C

EXPERIMENT 1 9MAY83 1456 16

30427060 RB

PB

604C

SAMPLE TIME 9MAY83 0949.00
ACQUISITION TIME 9MAY83 1141.06
PRESET TIME 50 SEC
ELAPSED TIME 52 SEC
LIVE TIME 50 SEC

LOCATION RT #4
TYPE 2 MIN.
GEOMETRY 0.000
VOLUME UG 12158.000
DETECTOR GEL 15A

CALIBRATION DATE 9MAY83 0958.44
KEV/CH 0.500
OFFSET 0.000

NORMALIZATION CONSTANTS
FWHM 5 A = 2.000 GAMMA SLOPE 0.500 E-3
SENSITIVITY 16 B = 10.000 OFFSET 4.500
LIBRARY NUMBER 1 ENERGY TOLERANCE 1.25
HALF-LIFE RATIO 8 ABUNDANCE LIMIT (%) 80.00

294	75	70	85	68	89	60	75
301	67	78	68	55	66	61	58
308	74	60	65	63	57	68	58
315	63	66	76	83	63	91	132
322	174	118	96	67	68	56	52
329	63	50	59	57	55	63	56
336	63	62	77	62	63	58	76
343	61	72	54	57	69	56	57

% SN IN SPECIMEN

5134

MICROGRAMS SN IN SPECIMEN 62.423

CNTS/MICROGRAM SN 37.02
% RSD COUNTING 1.1
CENTROID CHANNEL 322
HALF-LIFE 40 MIN
BACKGROUND SPACING 20
BACKGROUND CHANNELS 10
PEAK CHANNELS 5
CONSTANTS
E=2 7183
LN2= 69315

FBI LAB WASHINGTON D C

EXPERIMENT 1 9MAY83 1457 18

30427060 RB

PB

BLANK

SAMPLE TIME	9MAY83 0949 00	LOCATION	RT #4
ACQUISITION TIME	9MAY83 1142 06	TYPE	2 MIN
PPRESET TIME	50 SEC	GEOMETRY	0 000
ELAPSED TIME	50 SEC	VOLUME	UG 12000 000
LIVE TIME	50 SEC	DETECTOR	GEL 15A

CALIBRATION DATE	9MAY83 0958 44	KEV/CH	0 500
		OFFSET	0 000

		NORMALIZATION CONSTANTS	GAMMA	
FWHM	5	A = 2 000	SLOPE	0 500 E-3
SENSITIVITY	16	B = 10 000	OFFSET	4 500
LIBRARY NUMBER	1	ENERGY TOLERANCE	1 25	
HALF-LIFE RATIO	8	ABUNDANCE LIMIT (%)	80 00	

294	0	3	1	2	0	3	2
301	3	2	3	1	1	4	3
308	-	1	3	2	1	1	2
315	2	2	2	1	0	2	2
322	1	0	1	2	1	3	1
329	2	1	2	4	0	2	0
336	0	2	1	1	1	2	2
343	0	3	1	2	2	0	1

PPM SN IN SPECIMEN

-67.468

MICROGRAMS SN IN SPECIMEN - 809

CNTS/MICROGRAM SN	37 02
% PSD COUNTING	-112
CENTROID CHANNEL	322
HALF-LIFE	40 MIN
BACKGROUND SPACING	20
BACKGROUND CHANNELS	10
PEAK CHANNELS	5

CONSTANTS

E=2 7183
LN2= 69315

FBI LAB WASHINGTON D C

EXPERIMENT 1 9MAY83 1458 21

30427060 PB

PB

BG2

SAMPLE TIME 9MAY83 0949 00 LOCATION RT #4
ACQUISITION TIME 9MAY83 1143 04 TYPE 2 MIN
PRESET TIME 50 SEC GEOMETRY 0 000
ELAPSED TIME 50 SEC VOLUME UG 12000 000
LIVE TIME 50 SEC DETECTOR GEL 15A

CALIBRATION DATE 9MAY83 0958 44 KEV/CH 0 500
OFFSET 0 000

FNHM 5 NORMALIZATION CONSTANTS GAMMA
SENSITIVITY 16 A = 2 000 SLOPE 0 500 E-3
LIBRARY NUMBER 1 B = 10 000 OFFSET 4 500
HALF-LIFE RATIO 8 ENERGY TOLERANCE 1.25
ABUNDANCE LIMIT (%) 80 00

292	1	0	2	2	2	2	1
299	0	0	3	1	0	0	0
306	1	1	1	1	5	0	0
311	0	1	0	0	0	2	1
320	2	1	1	0	1	0	0
327	1	1	0	2	0	0	0
334	0	1	0	2	0	1	1
341	2	1	0	4	2	0	0

% SN IN SPECIMEN

0058

MICROGRAMS SN IN SPECIMEN

706

CNTS/MICROGRAM SN 37 02
% PSD COUNTING 120
CENTROID CHANNEL 320
HALF-LIFE 40 MIN
BACKGROUND SPACING 20
BACKGROUND CHANNELS 10
PEAK CHANNELS 5
CONSTANTS
E=2 718C
LN2= 69315

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

10-MAY-83 08:02:07

5604A

30427060 RE

SAMPLE WEIGHT: (UG) 12496.00

ACTIVATION: 11-JAN 83 00:00:00

NBS 10 MIN RT4

ACQUIRE DATE: 10-MAY-83 05:00:03

GEM 13

PRESHOT LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

FLAHSRD REAL TIME: 1011. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

STANDARD REPORT:

ELI MENT	ENERGY	AREA	CONCENTR.	ERROR (1 SIGMA)	CONSTANT	ERROR (1 SIGMA)
%-COPPER	511.0	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E-01
%-ANTIMONY	564.1	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E-01
%-ARSENIC	559.3	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E-01

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

10 MAY-83 08:02:50

S604E

3042/060 KB

SAMPLE WEIGHT: (UG) 11883.00

ACTIVATION: 11-JAN-53 00:00:00

NBS 10 MIN RT4

ACQUIRE DATE: 10-MAY-83 05:17:07

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1011. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

STANDARD REPORT:

ELEMENT	ENERGY	AREA	CONCENTR.	ERROR (1 SIGMA)	CONSTANT	ERROR (1 SIGMA)
%-COPPER	511.0	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E-01
%-ANTIMONY	564.1	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E-01
%-ARSENIC	559.3	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E-01

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 08:05:27

5604A

30427060 RB

SAMPLE WEIGHT: (UG) 12496.00
ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
ACQUIRE DATE: 10-MAY-83 05:00:03 GEM 13
PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
ELAPSED REAL TIME: 1011. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

STANDARD REPORT:

ELEMENT	ENERGY	AREA	CONCENTR.	ERROR (1 SIGMA)	CONSTANT	ERROR (1 SIGMA)
%-COPPER	511.0	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E-01
%-ANTIMONY	564.1	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E-01
%-ARSENIC	559.3	3212.	1.0000E-01	0.0000E-01	4.2775E-03	8.0540E-05

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

10-MAY-83 08:06:10

S604B

30427060 KB

SAMPLE WEIGHT: (UG) 11883.00
 ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
 ACQUIRE DATE: 10-MAY-83 05:17:07 GEM 13
 PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
 ELAPSED REAL TIME: 1011. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

STANDARD REPORT:

ELEMENT	ENERGY	AREA	CONCENTR.	ERROR (1 SIGMA)	CONSTANT	ERROR (1 SIGMA)
%-COPPER	511.0	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E-01
%-ANTIMONY	564.1	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E-01
%-ARSENIC	559.3	3150.	1.0000E-01	0.0000E-01	4.4434E-03	8.4832E-05

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 08:06:53

5604C

30427060 KB

SAMPLE WEIGHT: (UG) 12158.00
ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN K14
ACQUIRE DATE: 10-MAY-83 05:34:10 GEM 13
PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
ELAPSED REAL TIME: 1012. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

STANDARD REPORT:

ELEMENT	ENERGY	AREA	CONCENTR.	ERROR (1 SIGMA)	CONSTANT	ERROR (1 SIGMA)
%-COPPER	511.0	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E-01
%-ANTIMONY	564.1	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E-01
%-ARSENIC	559.3	3144.	1.0000E-01	0.0000E-01	4.3683E-03	8.3909E-05

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

10-MAY-83 08:07:36

562AA

30427060 RB

SAMPLE WEIGHT: (UG) 10917.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 10-MAY-83 05:51:14

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1005. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

STANDARD REPORT:

ELEMENT	ENERGY	AREA	CONCENTR.	ERROR (1 SIGMA)	CONSTANT	ERROR (1 SIGMA)
%-COPPER	511.0	2546.	7.8000E-02	0.0000E-01	0.9132E-03	1.8440E-04
%-ANTIMONY	564.1	14756.	7.2000E-01	0.0000E-01	2.3256E-03	1.9238E-05
%-ARSENIC	559.3	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E-01

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10 MAY 83 08:08:20

5426B

30427060 RB

SAMPLE WEIGHT: (UG) 12539.00

ACTIVATION: 09-MAY-83 09:49:00

NE5 10 MIN RT4

ACQUIRE DATE: 10-MAY-83 06:08:10

GEM 10

PRESAMPLE LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1004. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

STANDARD REPORT:

ELEMENT	ENERGY	AREA	CONCENTR.	ERROR (1 SIGMA)	CONSTANT	ERROR (1 SIGMA)
%-COPPER	511.0	2859.	7.8000E-02	0.0000E-01	0.8489E-03	1.7253E-04
%-ANTIMONY	564.1	16875.	7.2000E-01	0.0000E-01	2.3226E-03	1.7966E-05
%-ARSENIC	559.3	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E-01

FELT LABORATORY WASHINGTON DC

LEAD ANALYSIS

10 MAY 83 08:09:03

S626C

30427060 RB

SAMPLE WEIGHT: (UG) 12633.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 10-MAY-83 06:25:05

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1005. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

STANDARD REPORT:

ELEMENT	ENERGY	AREA	CONCENTR.	ERROR (1 SIGMA)	CONSTANT	ERROR (1 SIGMA)
%-COPPER	511.0	2779.	7.8000E-02	0.0000E-01	0.6689E-03	1.7123E-04
%-ANTIMONY	564.1	17054.	7.2000E-01	0.0000E-01	2.3367E-03	1.7976E-05
%-ARSENIC	559.3	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E-01

SUMMARY OF STANDARD CONSTANTS:

1. ELEMENT Z-COPPER AT 511.00 KEV

STANDARD NAME	CONCENTR.	CONSTANT	ERROR (1 SIGMA)
S626A	7.8000E-02	8.9132E-03	1.8448E-04
S626B	7.8000E-02	8.8489E-03	1.7253E-04
S626C	7.8000E-02	8.6689E-03	1.7123E-04

MEAN CONSTANT,	3 STDS:	8.8051E-03	1.0149E-04

2. ELEMENT Z-ANTIMONY AT 564.09 KEV

STANDARD NAME	CONCENTR.	CONSTANT	ERROR (1 SIGMA)
S626A	7.2000E-01	2.3256E-03	1.9238E-05
S626B	7.2000E-01	2.3226E-03	1.7966E-05
S626C	7.2000E-01	2.3367E-03	1.7976E-05

MEAN CONSTANT,	3 STDS:	2.3204E-03	1.0603E-05

3. ELEMENT Z-ARSENIC AT 559.30 KEV

STANDARD NAME	CONCENTR.	CONSTANT	ERROR (1 SIGMA)
S604A	1.0000E-01	4.2775E-03	8.0540E-05
S604B	1.0000E-01	4.4434E-03	8.4832E-05
S604C	1.0000E-01	4.3683E-03	8.3959E-05

MEAN CONSTANT,	3 STDS:	4.3601E-03	4.7947E-05

FBI LABORATORY WASHINGTON DC.
LEAD ANALYSIS
 10-MAY-83 08:09:59

ENCL

30427060 RE

SAMPLE WEIGHT: (UG) 12000.00
 ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
 ACQUIRE DATE: 09-MAY-83 15:06:24 GEM 13
 PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
 ELAPSED REAL TIME: 1001. SEC KEV/CHNL: 0.2500463
 FLASHED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AKLA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	15.	29.	3.7112E-04	9.7447E-05	26.3
%-ANTIMONY	564.1	27.	0.	0.0000E-01	NOT DETECTABLE	
%-ARSENIC	559.3	11.	0.	0.0000E-01	NOT DETECTABLE	

	CU	SB	AS
CNTS/UG/MIN AT RI	52.8	14.0	26.16
CENTROID CHANNEL	2043	2255	2234
HAFT-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2245 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1980:	4.	0.	1.	0.	1.	0.	0.	0.	2.
1997:	1.	3.	1.	0.	2.	2.	1.	4.	0.
2006:	1.	1.	1.	2.	0.	0.	3.	2.	0.
2015:	0.	2.	2.	2.	1.	1.	0.	2.	1.
2024:	2.	1.	0.	1.	0.	4.	1.	0.	1.
2033:	2.	3.	2.	2.	4.	2.	1.	5.	4.
2042:	3.	8.	0.	5.	5.	3.	2.	2.	2.
2051:	1.	3.	4.	7.	0.	2.	2.	0.	1.
2060:	1.	0.	2.	1.	0.	0.	2.	2.	0.
2069:	0.	1.	1.	0.	2.	1.	0.	2.	0.
2078:	1.	0.	1.	1.	3.	0.	1.	1.	2.
2087:	1.	1.	1.	3.	0.	1.	1.	0.	0.
2096:	3.	1.	2.	1.	2.	2.	0.	2.	1.
2105:	0.	0.	0.	0.	1.	1.	1.	0.	3.

% COPPER 0.0004

FEDERAL BUREAU OF INVESTIGATION WASHINGTON, DC
LEAD ANALYSIS
10-MAY-83 08:10:28

BC1

30427060 KB

SAMPLE WEIGHT: (UG) 12000.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 09-MAY-83 15:06:24

GEM 10

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1001. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	1.	1.	1.	1.	3.	2.	0.	0.	2.
2139:	2.	1.	1.	1.	0.	1.	0.	2.	1.
2148:	2.	1.	0.	3.	2.	0.	1.	0.	1.
2157:	2.	0.	1.	0.	0.	3.	0.	1.	0.
2166:	0.	2.	0.	2.	2.	0.	2.	0.	1.
2175:	1.	1.	1.	1.	1.	1.	1.	0.	0.
2184:	1.	1.	2.	2.	0.	0.	1.	1.	1.
2193:	0.	1.	2.	0.	3.	2.	3.	2.	1.
2202:	0.	2.	0.	1.	0.	0.	0.	2.	0.
2211:	1.	0.	0.	2.	0.	1.	1.	1.	1.
2220:	1.	0.	0.	0.	1.	0.	0.	0.	1.
2229:	2.	0.	1.	1.	0.	0.	1.	0.	0.
2238:	0.	0.	0.	2.	1.	0.	0.	0.	1.
2247:	0.	0.	4.	1.	0.	0.	0.	0.	2.
2256:	0.	1.	0.	0.	1.	0.	2.	1.	0.
2265:	1.	2.	2.	3.	2.	1.	4.	1.	2.
2274:	0.	0.	1.	0.	0.	1.	4.	0.	1.
2283:	0.	1.	0.	2.	2.	0.	1.	0.	0.
2292:	1.	0.	0.	0.	1.	1.	0.	2.	1.
2301:	1.	0.	0.	0.	2.	0.	0.	1.	2.
2310:	1.	3.	0.	4.	0.	0.	0.	0.	0.
2319:	0.	0.	1.	0.	1.	0.	1.	1.	1.
2328:	2.	4.	3.	2.	7.	7.	7.	3.	3.
2337:	1.	1.	0.	0.	2.	0.	1.	0.	1.
2346:	1.	5.	2.	1.	0.	1.	2.	2.	3.
2355:	1.	0.	0.	2.	0.	1.	0.	1.	0.
2364:	3.	0.	1.	2.	2.	2.	1.	1.	1.

% ANTIMONY 0.0000

% ARSENIC NOT DETECTABLE

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY 83 08:11:34

Q1A

30427060 KB

SAMPLE WEIGHT: (UG) 12080.00
ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN K14
ACQUIRE DATE: 09-MAY-83 15:23:16 GEM 13
PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
ELAPSED REAL TIME: 1026. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	662.	2916.	0.0374	0.0009	2.5
%-ANTIMONY	564.1	397.	110667.	4.1805	0.0228	0.5
%-ARSENIC	559.3	541.	3302.	0.0729	0.0017	2.3

	CU	SE	AS
CNIS/UC/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2044	2256	2236
HAIF LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2243 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1980:	71.	67.	56.	48.	58.	54.	56.	57.	71.
1997:	38.	67.	40.	55.	59.	56.	53.	56.	48.
2006:	58.	57.	56.	60.	58.	54.	58.	63.	63.
2015:	55.	55.	61.	54.	62.	52.	49.	70.	51.
2024:	48.	51.	50.	55.	68.	73.	56.	83.	66.
2033:	77.	82.	95.	111.	142.	175.	210.	265.	313.
2042:	336.	387.	345.	365.	323.	279.	214.	189.	177.
2051:	122.	102.	96.	77.	71.	55.	52.	59.	49.
2060:	61.	57.	47.	49.	47.	56.	39.	58.	55.
2069:	46.	49.	39.	53.	42.	50.	52.	37.	49.
2078:	43.	48.	45.	43.	49.	43.	50.	47.	42.
2087:	62.	50.	41.	45.	56.	43.	38.	52.	44.
2096:	42.	49.	49.	54.	46.	50.	50.	41.	54.
2105:	51.	50.	44.	46.	51.	42.	59.	39.	43.

% COPPER 0.0374

FILLET LABORATORY WASHINGTON DC

LEAD ANALYSIS

10-MAY-83 08:12:03

QJA

30427060 RE

SAMPLE WEIGHT: (UG) 12080.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 09-MAY-83 15:23:16

GEM 13

PRESLT LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1026. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: 0.0226080 KEV

2130:	44.	39.	42.	47.	37.	47.	48.	49.	51.
2139:	45.	44.	56.	38.	46.	39.	49.	38.	51.
2148:	42.	45.	49.	38.	34.	32.	53.	52.	40.
2157:	42.	38.	50.	49.	46.	36.	50.	41.	50.
2166:	42.	39.	30.	42.	46.	45.	50.	36.	51.
2175:	39.	43.	43.	46.	55.	43.	54.	41.	39.
2184:	44.	39.	47.	51.	41.	55.	46.	34.	54.
2193:	48.	49.	47.	35.	51.	29.	43.	46.	53.
2202:	44.	49.	54.	53.	45.	45.	47.	45.	56.
2211:	50.	48.	39.	54.	56.	51.	53.	62.	62.
2220:	53.	53.	57.	54.	65.	53.	61.	76.	82.
2229:	71.	95.	150.	229.	386.	574.	760.	908.	836.
2238:	684.7	499.	318.	220.	164.	135.X	141.	141.	172.
2247:	246.	318.	477.	1008.	2087.	4456.	8022.	12707.	16739.
2256:	18902.	17430.	13760.	8528.	4493.	2118.	813.	244.	83.
2265:	32.	23.	70.	16.	24.	22.	17.	14.	19.
2274:	15.	13.	20.	17.	21.	14.	10.	17.	17.
2283:	16.	12.	21.	21.	20.	23.	13.	17.	8.
2292:	13.	12.	13.	13.	12.	17.	17.	18.	19.
2301:	14.	18.	25.	15.	7.	11.	12.	12.	9.
2310:	19.	12.	15.	20.	16.	15.	7.	18.	17.
2319:	12.	16.	14.	8.	17.	17.	9.	11.	10.
2328:	13.	16.	16.	17.	15.	18.	17.	13.	18.
2337:	16.	15.	10.	13.	14.	13.	12.	15.	8.
2346:	12.	14.	14.	15.	11.	8.	4.	21.	18.
2355:	13.	6.	18.	10.	10.	10.	7.	16.	15.
2364:	9.	10.	6.	15.	19.	15.	7.	11.	17.

% ANTIMONY

4.1805

% ARSENIC

0.07129

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 08:13:10

Q1F:

30427060 KB

SAMPLE WEIGHT: (UG) 12631.00
ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
ACQUIRE DATE: 09-MAY-83 15:40:36 GEM 13
PREFLT LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
ELAPSED REAL TIME: 1027. SEC KEV/CHNL: 0.2500463
FLASHD LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	729.	2915.	0.0363	0.0009	2.5
%-ANTIMONY	564.1	370.	114829.	4.1613	0.0226	0.5
%-ARSENIC	559.3	540.	3531.	0.0751	0.0017	2.2

	CU	SE	AS
CNTS/UG/MIN AT RD	52.0	14.0	26.16
CENTROID CHANNEL	2043	2256	2236
HALF LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2244 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	61.	53.	50.	69.	64.	56.	61.	60.	61.
1997:	50.	69.	62.	60.	62.	81.	58.	40.	50.
2006:	60.	65.	68.	66.	61.	64.	59.	62.	42.
2015:	60.	68.	54.	58.	48.	63.	59.	61.	68.
2024:	64.	53.	80.	52.	55.	57.	58.	67.	52.
2033:	76.	91.	109.	114.	154.	206.	213.	279.	349.
2042:	333.	378.	355.	341.	328.	278.	227.	203.	141.
2051:	129.	114.	90.	73.	79.	60.	55.	60.	48.
2060:	52.	48.	50.	44.	42.	54.	51.	51.	47.
2069:	51.	57.	47.	53.	45.	56.	44.	30.	41.
2078:	52.	56.	34.	62.	46.	53.	49.	49.	59.
2087:	46.	44.	59.	52.	55.	54.	64.	39.	56.
2096:	56.	48.	52.	45.	46.	47.	54.	54.	49.
2105:	43.	41.	53.	56.	60.	54.	56.	45.	41.

% COPPER

0.0363

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 08:13:39

Q11:

3042/060 RE:

SAMPLE WEIGHT: (UG) 12631.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 09-MAY-83 15:40:36

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1027. SEC

KEV/CHNL: 0.2500463

FLAPSED LIVE TIME: 1000. SEC

OFFSET: 0.0226080 KEV

2130:	47.	36.	56.	54.	35.	46.	48.	54.	53.
2139:	50.	57.	52.	34.	50.	48.	39.	62.	48.
2148:	51.	36.	50.	47.	45.	39.	50.	44.	56.
2157:	63.	41.	48.	51.	44.	48.	52.	48.	58.
2166:	52.	45.	45.	44.	40.	42.	55.	32.	47.
2175:	51.	44.	48.	39.	40.	34.	49.	48.	50.
2184:	56.	54.	49.	41.	42.	48.	46.	48.	46.
2193:	47.	59.	40.	52.	42.	52.	44.	43.	50.
2202:	50.	36.	46.	44.	49.	52.	46.	57.	46.
2211:	64.	60.	60.	71.	57.	64.	47.	48.	66.
2220:	59.	51.	79.	77.	80.	64.	70.	83.	84.
2229:	74.	100.	153.	261.	371.	621.	781.	945.	932.
2238:	692.	482.	348.	201.	156.	163.	127.	171.	212.
2247:	248.	315.	510.	1023.	2227.	4454.	8320.	13095.	17610.
2256:	19620.	18130.	14021.	9009.	4761.	2152.	785.	271.	77.
2265:	36.	19.	24.	18.	16.	23.	16.	14.	12.
2274:	25.	19.	13.	13.	14.	13.	17.	16.	29.
2283:	11.	19.	21.	17.	28.	19.	17.	20.	8.
2292:	11.	14.	7.	12.	19.	20.	17.	8.	18.
2301:	19.	20.	17.	20.	14.	14.	11.	14.	21.
2310:	15.	10.	11.	17.	14.	24.	19.	21.	14.
2319:	14.	16.	14.	17.	17.	15.	15.	13.	17.
2328:	15.	12.	10.	20.	15.	16.	10.	11.	21.
2337:	13.	11.	16.	14.	12.	10.	9.	9.	10.
2346:	14.	11.	14.	12.	15.	8.	20.	12.	17.
2355:	13.	10.	11.	12.	11.	11.	16.	13.	12.
2364:	12.	17.	10.	12.	14.	20.	10.	13.	16.

% ANTIMONY

4.1613

% ARSENIC

0.0751

FEDERAL BUREAU OF INVESTIGATION WASHINGTON DC
 LEAD ANALYSIS
 10-MAY-83 08:14:46

UIC

30427060 RE

SAMPLE WEIGHT: (UC) 12145.00
 ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
 ACQUIRE DATE: 09-MAY-83 15:57:56 GEM 13
 PRESET LIV TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
 ELAPSED RFAL TIME: 1026. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVL TIME: 1000. SEC OFFSET: 0.0226080 KEV

ELEMENT	PEAK ENRGY	PKCND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	668.	2853.	0.0375	0.0010	2.5
%-ANTIMONY	564.1	391.	111407.	4.2117	0.0230	0.5
%-ARSENIC	559.3	552.	3440.	0.0767	0.0017	2.2

	CU	SD	AS
CNTS/UC/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2043	2256	2236
HALF-THICK	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2243 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	59.	60.	46.	62.	64.	55.	55.	53.	45.
1997:	66.	56.	54.	55.	56.	60.	50.	61.	67.
2006:	46.	53.	56.	63.	55.	50.	60.	60.	47.
2015:	45.	61.	50.	56.	61.	48.	54.	62.	46.
2024:	51.	40.	64.	43.	52.	54.	50.	80.	79.
2033:	71.	91.	94.	122.	147.	169.	198.	261.	329.
2042:	332.	362.	345.	340.	344.	274.	277.	193.	140.
2051:	110.	98.	90.	90.	60.	62.	61.	65.	50.
2060:	48.	59.	62.	44.	55.	57.	58.	38.	47.
2069:	44.	39.	51.	52.	59.	38.	51.	40.	43.
2078:	66.	50.	60.	46.	51.	48.	45.	50.	45.
2087:	59.	44.	44.	38.	49.	46.	36.	51.	36.
2096:	40.	74.	51.	48.	47.	60.	43.	51.	48.
2105:	42.	54.	37.	50.	32.	45.	36.	49.	38.

% COPPER 0.0375

LEAD ANALYSIS

10-MAY-83 08:15:14

Q1C

30427060 KB

SAMPLE WEIGHT: (UG) 12145.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN R14

ACQUIRE DATE: 09-MAY-83 15:57:56

GEM 13

PRESH LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1026. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	48.	41.	44.	43.	54.	46.	45.	52.	52.
2139:	55.	48.	43.	37.	35.	42.	44.	60.	45.
2148:	49.	49.	39.	56.	52.	36.	36.	54.	37.
2157:	53.	45.	41.	47.	43.	48.	40.	47.	62.
2166:	45.	39.	38.	43.	43.	50.	36.	38.	51.
2175:	57.	61.	35.	50.	34.	48.	47.	42.	53.
2184:	34.	48.	45.	37.	52.	45.	49.	53.	42.
2193:	44.	48.	35.	50.	58.	46.	45.	46.	49.
2202:	46.	55.	62.	46.	44.	48.	46.	48.	55.
2211:	53.	52.	45.	45.	41.	60.	50.	66.	58.
2220:	50.	56.	60.	62.	65.	81.	65.	73.	65.
2229:	85.	84.	155.	259.	378.	597.	768.	940.	842.
2238:	736.	474.	321.	222.	129.	127.	133.	169.	177.
2247:	273.	274.	539.	999.	2200.	4430.	8012.	12680.	17008.
2256:	19045.	17455.	13671.	8770.	4655.	2085.	788.	269.	87.
2265:	26.	27.	17.	16.	13.	22.	15.	16.	27.
2274:	10.	11.	12.	19.	18.	26.	18.	10.	13.
2283:	23.	18.	21.	17.	19.	23.	18.	14.	13.
2292:	11.	10.	18.	22.	18.	14.	19.	18.	16.
2301:	19.	16.	15.	14.	11.	14.	17.	11.	18.
2310:	13.	12.	17.	13.	14.	9.	14.	14.	16.
2319:	12.	13.	18.	8.	20.	10.	10.	18.	13.
2328:	22.	12.	21.	14.	25.	13.	19.	14.	10.
2337:	18.	9.	12.	11.	9.	11.	17.	15.	11.
2346:	14.	10.	11.	13.	15.	7.	13.	19.	12.
2355:	17.	18.	13.	12.	10.	18.	14.	6.	9.
2364:	11.	15.	14.	8.	11.	8.	10.	12.	7.

% ANTIMONY

4.2117

% ARSENIC

0.0767

FEDERAL BUREAU OF INVESTIGATION WASHINGTON DC

LEAD ANALYSIS

10 MAY-83 08:16:21

KIA

30427060 KB

SAMPLE WEIGHT: (UG) 13097.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 09-MAY-83 16:15:16

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1008. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
Z-COPPER	511.0	200.	1007.	0.0125	0.0005	3.9
Z-ANTIMONY	564.1	145.	32303.	1.1359	0.0082	0.7
Z-ARSENIC	559.3	165.	456.	0.0095	0.0006	6.3

	CU	SB	AS
CNTS/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2044	2256	2236
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2243 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1980:	20.	17.	19.	18.	25.	18.	14.	16.	13.
1997:	15.	15.	18.	21.	17.	19.	21.	9.	10.
2006:	22.	20.	14.	20.	17.	13.	13.	11.	18.
2015:	18.	17.	19.	15.	17.	15.	21.	18.	17.
2024:	8.	14.	23.	20.	18.	9.	23.	19.	25.
2033:	25.	14.	26.	38.	37.	63.	67.	86.	93.
2042:	115.	126.	124.	130.	118.	99.	64.	63.	59.
2051:	41.	35.	21.	23.	21.	14.	24.	15.	10.
2060:	13.	18.	16.	12.	8.	16.	12.	17.	11.
2069:	17.	11.	18.	12.	16.	10.	20.	15.	19.
2078:	10.	21.	13.	18.	12.	15.	14.	13.	23.
2087:	12.	11.	16.	14.	13.	13.	18.	9.	15.
2096:	15.	11.	14.	12.	14.	10.	12.	14.	12.
2105:	14.	14.	15.	16.	11.	11.	18.	7.	18.

Z COPPER

0.0125

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

10-MAY-83 08:16:50

K1A

30427060 RE

SAMPLE WEIGHT: (UG) 13097.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN K14

ACQUIRE DATE: 09-MAY-83 16:15:16

GEM 13

PRESLT LIVE TIME: 1000. SLC

CALIB DATE: 04-MAY-83 14:44:37

FLASHED REAL TIME: 1008. SLC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	6.	17.	7.	14.	21.	17.	4.	28.	12.
2139:	12.	17.	19.	16.	25.	14.	23.	6.	9.
2148:	13.	10.	14.	12.	19.	10.	12.	10.	11.
2157:	19.	12.	9.	12.	14.	14.	13.	17.	8.
2166:	15.	13.	11.	13.	18.	9.	15.	13.	17.
2175:	16.	11.	7.	13.	12.	15.	22.	13.	9.
2184:	15.	17.	17.	14.	9.	12.	16.	19.	15.
2193:	12.	5.	14.	9.	10.	12.	8.	13.	25.
2202:	14.	8.	9.	9.	21.	22.	16.	9.	16.
2211:	16.	16.	11.	12.	11.	19.	27.	12.	20.
2220:	21.	14.	22.	13.	24.	23.	23.	13.	15.
2229:	26.	27.	23.	37.	70.	97.	115.	130.	119.
2238:	107.	60.	48.	44.	35.	30.	40.	48.	61.
2247:	75.	100.	143.	245.	606.	1294.	2319.	3704.	5095.
2256:	5643.	5131.	3836.	2515.	1285.	575.	200.	69.	25.
2265:	5.	3.	2.	5.	1.	4.	6.	2.	2.
2274:	7.	5.	4.	4.	4.	2.	5.	3.	4.
2283:	7.	8.	5.	4.	5.	0.	3.	6.	4.
2292:	3.	7.	2.	5.	4.	6.	5.	4.	7.
2301:	4.	6.	7.	4.	0.	5.	4.	2.	1.
2310:	4.	5.	4.	4.	4.	4.	6.	2.	3.
2319:	8.	4.	2.	2.	6.	3.	3.	3.	3.
2328:	9.	3.	4.	11.	8.	13.	13.	5.	9.
2337:	8.	12.	4.	8.	4.	3.	3.	4.	1.
2346:	5.	2.	4.	3.	4.	5.	9.	3.	2.
2355:	3.	1.	4.	3.	6.	3.	1.	5.	3.
2364:	3.	3.	3.	9.	2.	2.	6.	4.	2.

% ANTIMONY

1.1357

% ARSENIC

0.0095

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

10-MAY-83 08:17:57

K1B

30427060 KB

SAMPLE WEIGHT: (UG) 12210.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN K14

ACQUIRE DATE: 09-MAY-83 16:32:16

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1007. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	204.	855.	0.0115	0.0005	4.3
%-ANTIMONY	564.1	119.	30777.	1.1644	0.0085	0.7
%-ARSENIC	559.3	160.	459.	0.0103	0.0006	6.2

	CU	SB	AS
CN15/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2043	2256	2236
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2242 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	19.	22.	17.	14.	11.	19.	19.	14.	15.
1997:	22.	21.	14.	16.	17.	19.	16.	14.	14.
2006:	16.	18.	13.	15.	20.	17.	13.	10.	11.
2015:	16.	24.	18.	15.	9.	14.	11.	13.	16.
2024:	18.	14.	11.	15.	12.	14.	19.	20.	16.
2033:	27.	22.	26.	38.	49.	60.	65.	67.	93.
2042:	100.	115.	105.	92.	115.	82.	63.	53.	43.
2051:	38.	32.	29.	25.	24.	16.	22.	17.	13.
2060:	18.	6.	18.	14.	15.	10.	18.	12.	19.
2069:	15.	15.	13.	14.	8.	16.	8.	18.	14.
2078:	12.	15.	13.	11.	6.	14.	15.	15.	13.
2087:	13.	16.	11.	9.	10.	18.	9.	24.	13.
2096:	10.	20.	12.	18.	4.	14.	16.	11.	13.
2105:	13.	15.	9.	5.	8.	15.	20.	18.	18.

% COPPER

0.0115

LEAD ANALYSIS

10-MAY-83 08:18:25

KLE

30427060 KE

SAMPLE WEIGHT: (UG) 12210.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 09-MAY-83 16:32:16

GEM 13

PRESHOT LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1007. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	20.	17.	9.	13.	13.	16.	10.	4.	14.
2139:	6.	10.	14.	13.	6.	11.	13.	18.	12.
2148:	15.	16.	15.	12.	14.	12.	8.	11.	16.
2157:	18.	16.	15.	16.	9.	11.	13.	10.	16.
2166:	14.	10.	10.	16.	13.	17.	11.	14.	11.
2175:	8.	15.	15.	9.	10.	15.	15.	10.	11.
2184:	11.	14.	12.	16.	3.	7.	15.	16.	13.
2193:	14.	8.	16.	14.	7.	13.	18.	15.	12.
2202:	11.	14.	20.	11.	16.	16.	18.	11.	15.
2211:	16.	18.	15.	13.	20.	10.	14.	9.	16.
2220:	13.	15.	22.	12.	20.	14.	23.	9.	13.
2229:	11.	26.	19.	37.	51.	82.	108.	153.	117.
2238:	108.7	70.	56.	50.	29.✓	46.	36.	41.	49.
2247:	56.	72.	139.	234.	604.	1189.	2195.	3630.	4849.
2256:	5247.	4863.	3656.	2381.	1318.	531.	199.	55.	21.
2265:	5.	6.	4.	2.	5.	6.	7.	3.	5.
2274:	3.	2.	2.	5.	4.	4.	10.	3.	5.
2283:	4.	2.	2.	5.	3.	5.	4.	3.	4.
2292:	3.	4.	3.	3.	3.	1.	5.	6.	4.
2301:	5.	3.	5.	3.	4.	3.	4.	5.	4.
2310:	4.	6.	3.	4.	2.	4.	3.	5.	2.
2319:	2.	4.	4.	1.	3.	2.	0.	3.	6.
2328:	4.	7.	4.	8.	11.	5.	9.	4.	5.
2337:	4.	2.	7.	3.	3.	7.	2.	6.	4.
2346:	3.	2.	2.	1.	0.	3.	3.	1.	5.
2355:	2.	4.	1.	2.	1.	2.	2.	5.	4.
2364:	5.	5.	8.	7.	2.	7.	2.	1.	6.

% ANTIMONY

1.1644

% ARSENIC

0.0103

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 08:19:32

K1C

30427060 KB

SAMPLE WEIGHT: (UG) 12390.00
ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
ACQUIRE DATE: 09-MAY-83 16:49:15 GLM 13
PRESLT LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
ELAPSED REAL TIME: 1008. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	PKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	211.	907.	0.0122	0.0005	4.2
% ANTIMONY	564.1	113.	30755.	1.1501	0.0084	0.7
%-ARSENIC	559.3	153.	464.	0.0104	0.0006	6.1

	CU	SB	AS
CNTS/UG/MIN AT KD	52.8	14.0	26.16
CENTROID CHANNEL	2043	2256	2236
HALF-FLTL	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2242 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	26.	15.	20.	15.	14.	16.	13.	21.	12.
1997:	20.	21.	11.	13.	15.	20.	11.	13.	12.
2006:	16.	18.	18.	12.	19.	19.	27.	18.	17.
2015:	12.	21.	15.	10.	12.	15.	14.	14.	21.
2024:	19.	18.	12.	9.	28.	15.	17.	31.	18.
2033:	30.	77.	25.	39.	52.	50.	67.	85.	96.
2042:	109.	106.	109.	126.	98.	79.	70.	66.	46.
2051:	46.	25.	21.	15.	27.	22.	16.	12.	19.
2060:	13.	13.	14.	10.	16.	19.	17.	11.	9.
2069:	17.	12.	9.	14.	20.	12.	15.	17.	6.
2078:	9.	14.	14.	10.	16.	16.	18.	9.	16.
2087:	8.	20.	16.	14.	16.	16.	18.	13.	14.
2096:	15.	7.	15.	14.	15.	13.	14.	14.	17.
2105:	23.	14.	18.	8.	13.	13.	16.	17.	12.

% COPPER 0.0122

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 08:20:00

KLC

3042/060 RE

SAMPLE WEIGHT: (UG) 12390.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 09-MAY-83 16:49:15

GEM 13

PRFSFT LIVL TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1008. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	14.	12.	10.	9.	8.	20.	12.	16.	17.
2139:	14.	15.	12.	16.	10.	13.	16.	13.	15.
2148:	10.	13.	12.	11.	15.	16.	17.	21.	10.
2157:	11.	9.	10.	13.	19.	7.	15.	18.	9.
2166:	12.	14.	17.	9.	12.	10.	6.	13.	11.
2175:	19.	16.	11.	18.	13.	9.	15.	17.	17.
2184:	12.	7.	11.	16.	15.	11.	16.	18.	5.
2193:	15.	11.	12.	11.	11.	7.	11.	16.	19.
2202:	16.	14.	17.	14.	14.	11.	14.	11.	13.
2211:	15.	16.	13.	22.	19.	14.	12.	18.	21.
2220:	14.	20.	15.	11.	19.	12.	21.	16.	29.
2229:	18.	15.	28.	55.	54.	95.	116.	136.	130.
2238:	104.	75.	62.	40.	33.	41.	51.	48.	55.
2247:	63.	84.	124.	255.	572.	1199.	2229.	3579.	4850.
2256:	5255.	4833.	3664.	2364.	1289.	564.	215.	70.	16.
2265:	6.	9.	5.	3.	4.	5.	5.	4.	12.
2274:	2.	2.	5.	5.	4.	6.	8.	2.	7.
2283:	6.	4.	5.	4.	3.	5.	7.	2.	9.
2292:	4.	5.	3.	1.	3.	2.	4.	2.	8.
2301:	5.	8.	8.	3.	3.	2.	1.	6.	5.
2310:	1.	5.	4.	0.	4.	2.	5.	4.	5.
2319:	6.	3.	4.	4.	3.	2.	6.	5.	2.
2328:	9.	6.	4.	11.	5.	5.	7.	0.	4.
2337:	4.	3.	1.	6.	4.	1.	5.	3.	0.
2346:	5.	2.	4.	8.	3.	3.	4.	5.	3.
2355:	1.	3.	3.	3.	4.	3.	6.	3.	1.
2364:	5.	7.	4.	1.	4.	3.	5.	5.	4.

% ANTIMONY

1.1501

% ARSENIC

0.0104

FEDERAL BUREAU OF INVESTIGATION WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 08:21:07

K2A

30427060 RE

SAMPLE WEIGHT: (UG) 12206.00
ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
ACQUIRE DATE: 09-MAY-83 17:06:15 GEM 13
PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
FLASSED REAL TIME: 1007. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	187.	879.	0.0122	0.0005	4.2
%-ANTIMONY	564.1	118.	30642.	1.1666	0.0005	0.7
%-ARSENIC	559.3	135.	433.	0.0099	0.0006	6.2

	CU	SE	AS
CNTS/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2042	2236	2236
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2243 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1980:	15.	12.	18.	16.	13.	18.	16.	17.	21.
1997:	19.	27.	22.	22.	12.	11.	17.	15.	19.
2006:	17.	12.	18.	13.	22.	13.	16.	18.	13.
2015:	19.	21.	13.	17.	15.	19.	14.	17.	13.
2024:	16.	14.	13.	20.	15.	22.	19.	15.	14.
2033:	21.	23.	30.	50.	45.	60.	61.	82.	86.
2042:	98.	126.	114.	97.	92.	80.	75.	48.	41.
2051:	29.	20.	19.	26.	24.	23.	17.	13.	22.
2060:	17.	17.	9.	16.	11.	14.	20.	15.	14.
2069:	18.	15.	10.	9.	12.	8.	18.	5.	14.
2078:	8.	15.	16.	13.	15.	16.	10.	18.	13.
2087:	7.	10.	8.	12.	13.	7.	16.	17.	16.
2096:	13.	12.	9.	12.	12.	14.	7.	25.	10.
2105:	15.	11.	9.	12.	17.	19.	15.	19.	9.

% COPPER

0.0122

FEDERAL BUREAU OF INVESTIGATION
 LABORATORY WASHINGTON DC
 LEAD ANALYSIS
 10-MAY-83 08:21:36

K2A

3042/060 KB

SAMPLE WEIGHT: (UG) 12206.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 09-MAY-83 17:06:15

GEM 13

PRESET TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1007. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	13.	10.	10.	17.	20.	7.	9.	15.	10.
2139:	13.	12.	10.	12.	16.	13.	11.	10.	15.
2148:	15.	13.	10.	9.	16.	10.	13.	6.	14.
2157:	2.	15.	15.	18.	13.	13.	14.	16.	9.
2166:	13.	9.	17.	10.	13.	12.	12.	10.	14.
2175:	12.	11.	14.	11.	10.	8.	12.	13.	12.
2184:	17.	10.	18.	17.	18.	12.	14.	10.	20.
2193:	17.	11.	14.	10.	15.	13.	16.	15.	10.
2202:	12.	8.	12.	24.	9.	12.	12.	11.	13.
2211:	12.	17.	10.	15.	12.	12.	16.	21.	10.
2220:	11.	19.	15.	13.	12.	18.	14.	21.	20.
2229:	24.	19.	24.	38.	46.	88.	108.	129.	124.
2238:	97.	61.	49.	53.	40.	33.	39.	50.	45.
2247:	65.	75.	137.	261.	569.	1210.	2249.	3555.	4798.
2256:	5391.	4754.	3750.	2253.	1225.	543.	202.	49.	9.
2265:	5.	7.	6.	1.	10.	7.	2.	3.	4.
2274:	5.	2.	2.	1.	4.	1.	5.	3.	4.
2283:	6.	5.	2.	5.	1.	3.	4.	4.	3.
2292:	8.	5.	4.	6.	1.	4.	7.	6.	7.
2301:	5.	6.	2.	5.	1.	2.	5.	4.	6.
2310:	2.	2.	8.	3.	4.	4.	2.	4.	3.
2319:	7.	2.	8.	3.	7.	3.	4.	3.	2.
2328:	4.	2.	6.	8.	6.	8.	10.	7.	4.
2337:	4.	5.	4.	4.	5.	1.	3.	5.	1.
2346:	3.	1.	5.	3.	4.	3.	3.	2.	3.
2355:	2.	3.	0.	3.	4.	4.	3.	1.	3.
2364:	1.	1.	5.	3.	2.	3.	2.	5.	5.

% ANTIMONY

1.1666

% ARSENIC

0.0099

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

10 MAY-83 08:22:43

K2E

30427060 KB

SAMPLE WEIGHT: (UG) 12696.00
 ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
 ACQUIRE DATE: 09-MAY-83 17:23:14 GEM 10
 PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
 ELAPSED REAL TIME: 1000. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	197.	871.	0.0118	0.0005	4.2
%-ANTIMONY	564.1	110.	31145.	1.1434	0.0083	0.7
%-ARSENIC	559.3	133.	432.	0.0096	0.0006	6.2
			CU	SB	AS	
CNTS/UG/MIN AT RD			52.8	14.0	26.16	
CENTROID CHANNEL			2043	2256	2237	
HALF-LIFE			12.8 H	2.7 D	26.3 H	
BACKGROUND SPACING			50 L&R	80 L&R	30 L	CH 2241 R
BACKGROUND CHANNELS			22 L&R	22 L&R	11 L	1 R
PEAK CHANNELS			13	13	5	

1988:	26.	22.	13.	16.	19.	22.	19.	18.	11.
1997:	10.	23.	17.	20.	16.	17.	19.	16.	19.
2006:	24.	24.	20.	19.	15.	17.	12.	17.	19.
2015:	21.	15.	27.	8.	24.	11.	17.	13.	21.
2024:	21.	21.	17.	10.	17.	22.	15.	20.	20.
2033:	23.	20.	34.	33.	46.	51.	63.	80.	92.
2042:	103.	93.	103.	101.	96.	106.	73.	61.	45.
2051:	45.	26.	23.	21.	17.	14.	18.	18.	16.
2060:	17.	20.	14.	23.	18.	19.	19.	13.	19.
2069:	14.	10.	17.	13.	13.	11.	17.	8.	16.
2078:	18.	22.	11.	15.	19.	13.	11.	16.	7.
2087:	18.	14.	4.	8.	7.	14.	15.	18.	9.
2096:	9.	18.	18.	18.	6.	10.	15.	17.	20.
2105:	19.	13.	14.	13.	20.	9.	12.	15.	18.

% COPPER

0.0118

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

10-MAY-83 08:23:12

K12B

3042/060 KB

SAMPLE WEIGHT: (UG) 12696.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 09-MAY-83 17:23:14

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1008. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	10.	18.	10.	17.	15.	18.	15.	19.	16.
2139:	7.	11.	7.	14.	11.	12.	14.	16.	17.
2148:	8.	19.	11.	9.	14.	20.	13.	15.	15.
2157:	9.	11.	13.	19.	9.	12.	8.	11.	9.
2166:	12.	19.	13.	14.	11.	14.	9.	11.	12.
2175:	10.	11.	8.	19.	13.	19.	16.	9.	11.
2184:	17.	9.	11.	20.	10.	8.	15.	12.	15.
2193:	11.	11.	13.	18.	16.	15.	9.	11.	10.
2202:	7.	17.	17.	8.	9.	16.	9.	9.	16.
2211:	13.	17.	12.	20.	17.	12.	16.	10.	24.
2220:	13.	15.	18.	7.	16.	17.	9.	19.	19.
2229:	23.	25.	29.	46.	77.	81.	121.	131.	108.
2238:	95.	87.	59.	32.	35.	35.	40.	40.	51.
2247:	60.	81.	129.	265.	525.	1160.	2196.	3576.	4866.
2256:	5288.	5019.	3855.	2455.	1261.	589.	208.	72.	19.
2265:	7.	8.	5.	5.	6.	7.	4.	1.	2.
2274:	7.	8.	2.	5.	5.	3.	5.	6.	5.
2283:	5.	2.	4.	3.	7.	3.	3.	4.	4.
2292:	2.	8.	3.	2.	4.	6.	4.	1.	1.
2301:	5.	3.	4.	2.	5.	0.	7.	10.	4.
2310:	2.	8.	6.	6.	3.	7.	2.	4.	7.
2319:	4.	4.	3.	6.	5.	4.	4.	3.	5.
2328:	1.	10.	5.	5.	11.	7.	7.	6.	1.
2337:	9.	4.	3.	0.	5.	5.	4.	2.	2.
2346:	3.	2.	2.	3.	5.	4.	4.	3.	3.
2355:	3.	4.	2.	2.	2.	3.	3.	2.	1.
2364:	6.	6.	3.	6.	4.	3.	6.	6.	2.

% ANTIMONY

1.1434

% ARSENIC

0.0096

FEL LABORATORY WASHINGTON DC
LEAD ANALYSTS
10-MAY-83 08:24:19

KPC

30427060 KB

SAMPLE WEIGHT: (UG) 12834.00
ACTIVATION: 09-MAY-83 09:49:00 NES 10 MIN RT4
ACQUIRE DATE: 09-MAY-83 17:40:14 GEM 13
PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
ELAPSED REAL TIME: 1008. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	207.	888.	0.0121	0.0005	4.2
%-ANTIMONY	564.1	109.	31316.	1.1408	0.0083	0.7
%-ARSENIC	559.3	160.	406.	0.0089	0.0006	6.7

	CU	SB	AS
CNIS/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2044	2256	2237
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2245 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	16.	13.	15.	22.	15.	26.	19.	14.	15.
1997:	24.	15.	16.	15.	16.	16.	20.	14.	19.
2006:	13.	16.	10.	11.	14.	14.	15.	11.	19.
2015:	16.	20.	17.	16.	13.	13.	21.	27.	18.
2024:	20.	17.	11.	12.	19.	8.	16.	23.	15.
2033:	21.	21.	29.	32.	38.	48.	62.	75.	127.
2042:	107.	98.	121.	97.	87.	97.	74.	55.	47.
2051:	35.	34.	21.	17.	13.	27.	12.	15.	20.
2060:	10.	5.	15.	17.	16.	16.	19.	17.	13.
2069:	13.	16.	14.	8.	15.	19.	11.	16.	11.
2078:	13.	7.	11.	10.	11.	13.	17.	14.	14.
2087:	14.	13.	13.	14.	16.	13.	16.	16.	12.
2096:	13.	17.	17.	9.	16.	18.	14.	8.	14.
2105:	14.	14.	11.	14.	15.	12.	12.	14.	25.

% COPPER 0.0121

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

10-MAY-83 08:24:47

K2C

30427060 RE

SAMPLE WEIGHT: (UG) 12834.00
 ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN R14
 ACQUIRE DATE: 09-MAY-83 17:40:14 GEM 13
 PRESFT LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
 FLAPSED REAL TIME: 1008. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

2130:	15.	18.	14.	10.	15.	10.	11.	16.	12.
2139:	11.	10.	16.	8.	7.	12.	10.	12.	18.
2148:	20.	14.	14.	17.	12.	15.	11.	14.	15.
2157:	13.	7.	10.	15.	15.	20.	12.	17.	14.
2166:	13.	15.	16.	13.	12.	16.	8.	9.	16.
2175:	12.	11.	16.	21.	9.	9.	13.	21.	15.
2184:	14.	12.	14.	18.	12.	7.	11.	19.	14.
2193:	9.	15.	10.	8.	14.	12.	16.	15.	13.
2202:	16.	16.	10.	13.	18.	16.	11.	14.	18.
2211:	17.	11.	12.	12.	18.	15.	10.	17.	13.
2220:	13.	15.	19.	12.	16.	14.	16.	21.	29.
2229:	27.	13.	27.	54.	58.	72.	122.	111.	118.
2238:	105.	86.	57.	43.	40.	42.	41.	40.	49.
2247:	70.	90.	128.	294.	579.	1248.	2347.	3502.	4857.
2256:	5327.	4950.	3851.	2347.	1353.	546.	229.	65.	21.
2265:	12.	4.	5.	3.	4.	2.	3.	4.	3.
2274:	6.	1.	6.	2.	5.	4.	6.	7.	3.
2283:	4.	1.	4.	7.	3.	5.	2.	5.	8.
2292:	0.	3.	4.	2.	3.	6.	1.	7.	3.
2301:	4.	2.	3.	7.	3.	3.	2.	3.	3.
2310:	2.	4.	4.	4.	3.	4.	1.	5.	8.
2319:	7.	5.	4.	5.	4.	2.	5.	5.	5.
2328:	3.	8.	6.	5.	8.	7.	2.	6.	6.
2337:	2.	3.	2.	2.	2.	3.	6.	3.	4.
2346:	3.	6.	8.	2.	3.	3.	3.	4.	2.
2355:	6.	3.	7.	4.	1.	3.	0.	2.	4.
2364:	5.	2.	1.	4.	4.	1.	0.	5.	0.

% ANTIMONY 1.1408

% ARSENIC 0.0089

FEDERAL BUREAU OF INVESTIGATION WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 08:25:54

K3A

30427060 KB

SAMPLE WEIGHT: (UG) 12857.00
ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
ACQUIRE DATE: 09-MAY-83 17:57:14 GEM 13
PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:3/
ELAPSED REAL TIME: 1009. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGD	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	217.	788.	0.0109	0.0005	4.6
%-ANTIMONY	564.1	134.	36675.	1.3376	0.0093	0.7
%-ARSENIC	559.3	197.	458.	0.0102	0.0007	6.5

	CU	SE	AS
CNTS/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2044	2256	2236
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2244 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	27.	12.	21.	11.	21.	20.	20.	23.	15.
1997:	13.	14.	17.	22.	15.	21.	13.	23.	22.
2006:	17.	33.	18.	24.	14.	19.	12.	24.	14.
2015:	16.	19.	12.	19.	15.	17.	18.	18.	16.
2024:	27.	18.	20.	23.	25.	19.	20.	25.	27.
2033:	20.	19.	36.	38.	46.	55.	63.	64.	78.
2042:	88.	93.	112.	85.	94.	89.	68.	68.	48.
2051:	44.	27.	33.	25.	13.	19.	21.	26.	17.
2060:	13.	13.	10.	11.	19.	18.	24.	10.	20.
2069:	17.	12.	14.	18.	14.	15.	23.	18.	15.
2078:	15.	10.	18.	13.	25.	11.	17.	15.	12.
2087:	12.	15.	18.	22.	14.	14.	8.	21.	17.
2096:	15.	14.	19.	18.	13.	14.	8.	12.	11.
2105:	16.	18.	18.	16.	12.	13.	16.	9.	13.

% COPPER

0.0109

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 08:26:23

K3A

3042/060 RE

SAMPLE WEIGHT: (UG) 12857.00

ACTIVATION: 09 MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 09-MAY-83 17:57:14

GEM 13

PRESIDENTIAL TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1009. SEC

KLV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: 0.0226080 KLV

2130:	12.	13.	18.	25.	15.	16.	27.	15.	15.
2139:	16.	23.	16.	11.	8.	15.	14.	15.	15.
2148:	8.	13.	10.	22.	8.	8.	18.	18.	11.
2157:	16.	8.	20.	20.	12.	10.	14.	12.	14.
2166:	11.	11.	23.	9.	13.	15.	14.	16.	10.
2175:	16.	16.	16.	13.	14.	15.	17.	9.	17.
2184:	15.	14.	19.	13.	12.	22.	21.	18.	14.
2193:	15.	13.	12.	17.	22.	12.	20.	17.	24.
2202:	15.	18.	16.	7.	24.	12.	20.	21.	23.
2211:	17.	9.	18.	19.	15.	20.	13.	25.	23.
2220:	15.	18.	19.	22.	10.	15.	34.	15.	20.
2229:	16.	25.	34.	57.	77.	104.	107.	145.	133.
2238:	121.	79.	61.	53.	43.	46.	43.	59.	56.
2247:	74.	89.	192.	296.	747.	1505.	2726.	4225.	5606.
2256:	6343.	5772.	4488.	2752.	1534.	607.	208.	74.	22.
2265:	7.	5.	6.	7.	2.	6.	5.	5.	2.
2274:	4.	8.	2.	3.	6.	3.	8.	1.	6.
2283:	2.	3.	5.	2.	5.	6.	4.	3.	10.
2292:	3.	4.	1.	1.	7.	3.	5.	0.	3.
2301:	2.	7.	4.	4.	4.	5.	5.	5.	5.
2310:	3.	4.	4.	5.	4.	4.	3.	3.	5.
2319:	4.	4.	7.	3.	4.	4.	5.	1.	1.
2328:	6.	6.	5.	7.	10.	9.	8.	7.	10.
2337:	3.	1.	1.	5.	4.	5.	5.	2.	3.
2346:	4.	3.	2.	3.	6.	6.	7.	5.	2.
2355:	8.	4.	5.	5.	7.	2.	8.	3.	3.
2364:	4.	3.	2.	6.	3.	3.	2.	5.	2.

% ANTIMONY

1.3376

% ARSENIC

0.0102

10-MAY-83 08:27:30

3047060 RB

OFFSET: -0.0226080 KEV

1980:	17.	16.	19.	21.	19.	25.	16.	19.	28.
1997:	15.	11.	25.	15.	20.	19.	21.	16.	21.
2006:	20.	22.	23.	7.	14.	14.	22.	23.	17.
2015:	23.	22.	12.	20.	14.	26.	11.	13.	24.
2024:	21.	17.	19.	13.	18.	18.	24.	19.	18.
2033:	33.	21.	30.	31.	37.	37.	50.	82.	79.
2042:	86.	92.	89.	116.	77.	86.	69.	46.	47.
2051:	29.	33.	22.	16.	23.	15.	23.	17.	16.
2060:	6.	13.	16.	15.	10.	22.	25.	28.	26.
2069:	19.	14.	20.	16.	25.	14.	11.	14.	13.
2078:	20.	14.	14.	13.	12.	10.	13.	17.	16.
2087:	13.	7.	19.	22.	21.	12.	15.	21.	13.
2096:	17.	10.	10.	17.	17.	15.	14.	14.	24.
2105:	18.	15.	21.	20.	11.	14.	17.	16.	16.

U. U. U. U. U.

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
 10-MAY-83 08:27:58

KJE:

30427060 RE

SAMPLE WEIGHT: (UG) 12500.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 09-MAY-83 18:14:13

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1009. SEC

KEV/CHNL: 0.2500463

FINALSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	11.	16.	13.	18.	15.	18.	11.	16.	16.
2139:	19.	19.	11.	17.	16.	13.	7.	12.	19.
2148:	14.	14.	12.	13.	19.	13.	24.	6.	12.
2157:	12.	15.	16.	11.	19.	14.	13.	14.	22.
2166:	18.	20.	20.	14.	20.	12.	12.	15.	14.
2175:	16.	17.	19.	21.	16.	14.	14.	17.	9.
2184:	13.	13.	18.	18.	17.	12.	16.	23.	15.
2193:	14.	18.	16.	24.	18.	19.	11.	16.	18.
2202:	17.	9.	11.	11.	12.	17.	12.	15.	14.
2211:	16.	11.	12.	15.	18.	19.	14.	22.	19.
2220:	21.	17.	19.	15.	17.	19.	23.	17.	20.
2229:	25.	23.	32.	56.	68.	116.	111.	156.	144.
2238:	110.	95.	75.	40.	44.	48.	44.	57.	55.
2247:	61.	93.	157.	321.	652.	1417.	2684.	4279.	5702.
2256:	6176.	5542.	4365.	2762.	1431.	673.	247.	70.	16.
2265:	7.	5.	14.	4.	3.	5.	3.	0.	6.
2274:	11.	5.	6.	8.	8.	9.	5.	6.	8.
2283:	4.	5.	2.	7.	9.	5.	5.	1.	4.
2292:	8.	3.	2.	3.	5.	6.	4.	2.	3.
2301:	4.	0.	5.	3.	2.	4.	7.	4.	8.
2310:	5.	2.	7.	5.	7.	11.	3.	2.	2.
2319:	1.	3.	3.	3.	1.	3.	4.	5.	7.
2328:	4.	7.	9.	5.	7.	13.	9.	7.	4.
2337:	6.	7.	6.	5.	4.	3.	5.	2.	5.
2346:	7.	1.	3.	5.	3.	4.	1.	3.	4.
2355:	3.	8.	4.	3.	2.	3.	3.	4.	4.
2364:	4.	6.	2.	4.	8.	3.	4.	4.	3.

% ANTIMONY

1.3586

% ARSENIC

0.0116

LEAD ANALYSIS

Discussion

SAMPLE WEIGHT: (UG) 12676.00

ACTIVATION: 09-MAY-83 09:49:00

NEG 10 MIN RT4

ACQUIRE DATE: 09-MAY-83 18:31:13

GEM 13

```

PRESLIVE TIME:      1000. SLC

```

CALIE: DATE: 04-MAY-83 14:44:3/

ELAPSED REAL TIME: 1009. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

	CU	SV	AS
CNTS/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2043	2256	2236
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2242 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L J R
PEAK CHANNELS	13	13	5

✓ CONFIDENTIAL

PAGE 1

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 08:29:34

K3C

30427060 RE

SAMPLE WEIGHT: (UG) 12676.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 09-MAY-83 18:31:13

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1009. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	19.	20.	11.	13.	14.	13.	19.	16.	13.
2139:	14.	13.	13.	17.	21.	7.	14.	7.	18.
2148:	10.	14.	13.	13.	13.	14.	16.	17.	16.
2157:	12.	17.	14.	8.	9.	14.	20.	19.	15.
2166:	13.	19.	13.	13.	13.	21.	17.	14.	15.
2175:	12.	14.	13.	10.	19.	14.	17.	25.	14.
2184:	17.	17.	17.	21.	12.	15.	14.	17.	12.
2193:	22.	9.	15.	18.	15.	20.	17.	18.	15.
2202:	16.	14.	23.	18.	16.	19.	20.	20.	25.
2211:	13.	18.	15.	16.	23.	14.	17.	16.	19.
2220:	19.	16.	19.	14.	13.	14.	16.	20.	24.
2229:	24.	31.	28.	45.	66.	124.	128.	148.	143.
2238:	132.	86.	55.	41.	31.	49.	52.	43.	71.
2247:	77.	102.	178.	328.	685.	1412.	2575.	4272.	5665.
2256:	6195.	5647.	4357.	2703.	1456.	596.	259.	78.	17.
2265:	6.	9.	4.	5.	7.	1.	8.	6.	6.
2274:	6.	6.	6.	3.	6.	5.	5.	1.	4.
2283:	4.	8.	1.	7.	5.	5.	6.	0.	6.
2292:	4.	3.	4.	5.	2.	2.	6.	4.	2.
2301:	3.	7.	4.	4.	2.	3.	8.	2.	4.
2310:	7.	6.	2.	3.	3.	6.	2.	7.	3.
2319:	9.	3.	5.	8.	9.	1.	5.	2.	4.
2328:	6.	8.	5.	2.	6.	10.	9.	4.	4.
2337:	4.	2.	5.	4.	1.	7.	10.	2.	3.
2346:	7.	3.	2.	3.	4.	6.	6.	4.	4.
2355:	3.	2.	2.	6.	4.	2.	3.	3.	0.
2364:	3.	3.	5.	4.	5.	3.	4.	2.	5.

% ANTIMONY

1.3406

% ARSENIC

0.0126

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

10-MAY-83 08:30:41

K4A

3042/060 KB

SAMPLE WEIGHT: (UG) 12670.00
 ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN K14
 ACQUIRE DATE: 09-MAY-83 18:48:12 GEM 13
 PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
 ELAPSED REAL TIME: 1009. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 1000. SEC OFFSET: 0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
Z-COPPER	511.0	224.	644.	0.0095	0.0005	5.3
Z-ANTIMONY	564.1	132.	37155.	1.3876	0.0096	0.7
Z-ARSENIC	559.3	182.	389.	0.0090	0.0006	7.1

	CU	SB	AS
CNTS/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2044	2236	2236
HAIF-HEIGHT	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2241 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	20.	29.	28.	17.	14.	20.	17.	13.	19.
1997:	27.	15.	13.	30.	24.	15.	10.	28.	19.
2006:	20.	18.	25.	18.	10.	23.	13.	13.	21.
2015:	19.	7.	24.	18.	15.	17.	22.	22.	12.
2024:	17.	20.	13.	19.	17.	15.	21.	23.	32.
2033:	19.	22.	27.	35.	28.	53.	63.	65.	75.
2042:	73.	81.	98.	72.	85.	61.	67.	44.	31.
2051:	41.	25.	25.	27.	21.	26.	19.	15.	18.
2060:	16.	15.	18.	15.	12.	18.	15.	11.	14.
2069:	25.	17.	20.	13.	20.	14.	11.	10.	19.
2078:	20.	16.	21.	15.	12.	13.	21.	10.	12.
2087:	17.	18.	21.	13.	16.	22.	19.	12.	12.
2096:	15.	10.	15.	12.	26.	15.	17.	24.	20.
2105:	13.	19.	15.	17.	14.	14.	17.	20.	15.

% COPPER 0.0095

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 08:31:09

KTA

3042/060 RE

SAMPLE WEIGHT: (UG) 12670.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 09-MAY-83 18:48:12

GEM 13

PRESFT LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1009. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	18.	16.	19.	18.	12.	17.	14.	17.	17.
2139:	19.	11.	16.	17.	16.	14.	9.	14.	16.
2148:	20.	17.	12.	12.	16.	15.	9.	11.	21.
2157:	11.	17.	10.	18.	16.	12.	12.	12.	16.
2166:	14.	16.	25.	8.	16.	15.	17.	10.	14.
2175:	16.	14.	12.	16.	17.	18.	20.	12.	15.
2184:	24.	12.	13.	10.	16.	19.	10.	11.	18.
2193:	13.	15.	13.	21.	12.	13.	12.	18.	15.
2202:	20.	15.	23.	22.	8.	13.	17.	12.	24.
2211:	13.	16.	20.	13.	11.	17.	17.	16.	18.
2220:	18.	20.	15.	17.	19.	11.	20.	18.	21.
2229:	22.	21.	25.	46.	54.	82.	119.	104.	134.
2238:	79.	79.	63.	35.	42.	46.	51.	54.	52.
2247:	80.	103.	180.	364.	735.	1448.	2777.	4361.	5700.
2256:	6400.	5844.	4471.	2855.	1452.	640.	240.	61.	17.
2265:	10.	3.	8.	4.	7.	9.	8.	5.	5.
2274:	7.	4.	9.	2.	7.	2.	3.	9.	4.
2283:	6.	6.	4.	6.	5.	3.	2.	0.	6.
2292:	1.	6.	6.	5.	4.	5.	4.	7.	4.
2301:	7.	7.	2.	9.	6.	3.	1.	6.	8.
2310:	5.	0.	3.	3.	4.	4.	2.	4.	4.
2319:	3.	6.	4.	5.	5.	4.	3.	2.	9.
2328:	7.	2.	5.	2.	11.	8.	6.	4.	1.
2337:	5.	6.	2.	6.	4.	4.	3.	4.	2.
2346:	5.	4.	4.	4.	5.	4.	2.	9.	0.
2355:	3.	6.	4.	5.	3.	4.	1.	4.	5.
2364:	1.	3.	2.	5.	4.	0.	3.	3.	4.

% ANTIMONY

1.3876

% ARSENIC

0.0090

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

10-MAY-83 08:32:16

K4B:

30427060 KB

SAMPLE WEIGHT: (UC) 13306.00

ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN K14

ACQUIRE DATE: 09-MAY-83 19:05:12 GEM 13

PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1009. SEC KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
Z-COPPER	511.0	233.	708.	0.0101	0.0005	5.0
Z-ANTIMONY	564.1	125.	38454.	1.3716	0.0094	0.7
Z-ARSENIC	559.3	192.	421.	0.0093	0.0006	6.8

	CU	SB	AS
CNTS/UC/MIN AT KD	52.8	14.0	26.16
CENTROID CHANNEL	2043	2256	2236
HALF LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2242 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1980:	19.	14.	18.	12.	17.	20.	22.	32.	21.
1997:	23.	27.	16.	19.	16.	25.	22.	27.	19.
2006:	16.	19.	15.	22.	23.	16.	25.	18.	19.
2015:	26.	12.	16.	24.	23.	11.	21.	28.	12.
2024:	18.	16.	20.	23.	13.	11.	15.	24.	19.
2033:	29.	21.	33.	32.	46.	46.	71.	61.	79.
2042:	94.	86.	87.	71.	89.	85.	62.	64.	43.
2051:	31.	22.	31.	20.	22.	29.	16.	17.	17.
2060:	17.	16.	11.	17.	17.	16.	16.	10.	11.
2069:	20.	18.	13.	18.	16.	19.	17.	17.	22.
2078:	15.	13.	22.	11.	18.	17.	15.	19.	17.
2087:	19.	13.	21.	24.	16.	15.	9.	16.	16.
2096:	13.	17.	14.	20.	17.	14.	12.	20.	19.
2105:	12.	13.	14.	20.	17.	7.	16.	17.	16.

Z COPPER

0.0101

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

10-MAY-83 08:32:45

K4B

30427060 RE

SAMPLE WEIGHT: (UG) 13306.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 09-MAY-83 19:05:12

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1009. SEC

KEV/CHNL: 0.2500463

FLASHED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	20.	13.	11.	17.	9.	15.	14.	13.	20.
2139:	17.	22.	19.	13.	19.	12.	13.	11.	12.
2148:	19.	20.	16.	9.	24.	12.	13.	17.	13.
2157:	22.	11.	14.	15.	16.	20.	13.	19.	18.
2166:	18.	11.	11.	20.	19.	17.	14.	12.	18.
2175:	12.	17.	15.	19.	9.	10.	11.	15.	12.
2184:	11.	16.	19.	9.	15.	16.	8.	21.	18.
2193:	11.	20.	9.	19.	19.	16.	18.	10.	11.
2202:	14.	24.	21.	17.	20.	16.	22.	16.	18.
2211:	13.	21.	15.	17.	16.	12.	22.	20.	18.
2220:	19.	24.	27.	24.	30.	17.	18.	23.	15.
2229:	27.	18.	33.	51.	78.	106.	111.	123.	112.
2238:	105.	77.	60.	58.	37.	42.	42.	49.	60.
2247:	74.	96.	169.	373.	742.	1626.	2840.	4542.	5949.
2256:	6642.	6047.	4585.	2842.	1518.	655.	218.	63.	22.
2265:	9.	5.	4.	6.	8.	5.	6.	1.	5.
2274:	6.	8.	8.	6.	9.	10.	3.	7.	2.
2283:	4.	4.	4.	5.	5.	5.	5.	9.	4.
2292:	5.	5.	8.	3.	5.	1.	5.	5.	4.
2301:	7.	5.	3.	4.	3.	1.	3.	6.	4.
2310:	3.	3.	8.	5.	9.	3.	7.	1.	3.
2319:	2.	2.	4.	5.	4.	2.	4.	4.	10.
2328:	2.	9.	10.	7.	6.	5.	12.	8.	4.
2337:	3.	4.	2.	6.	0.	7.	3.	3.	3.
2346:	5.	3.	2.	2.	3.	4.	5.	3.	6.
2355:	3.	5.	3.	6.	2.	2.	7.	6.	3.
2364:	2.	3.	7.	5.	2.	2.	0.	2.	2.

% ANTIMONY

1.3716

% ARSENIC

0.0093

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

10 MAY-83 08:33:52

K4C

30427060 KB

SAMPLE WEIGHT: (UG) 12603.00
 ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
 ACQUIRE DATE: 09-MAY-83 19:22:16 GEM 13
 PRFSET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
 ELAPSED REAL TIME: 1009. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 1000. SEC OFFSET: 0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	245.	625.	0.0095	0.0005	5.5
%-ANTIMONY	564.1	145.	36431.	1.3760	0.0096	0.7
%-ARSENIC	559.3	184.	368.	0.0086	0.0006	7.5

	CU	SB	AS
CNTS/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2044	2256	2236
HALF LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2241 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1980:	17.	11.	15.	18.	12.	16.	25.	25.	19.
1997:	17.	26.	25.	23.	27.	21.	19.	17.	14.
2006:	10.	24.	11.	15.	18.	18.	19.	17.	18.
2015:	14.	14.	20.	22.	12.	15.	17.	19.	15.
2024:	29.	13.	8.	17.	19.	14.	25.	17.	23.
2033:	27.	24.	28.	29.	42.	42.	56.	70.	76.
2042:	73.	84.	79.	91.	73.	67.	57.	59.	43.
2051:	33.	29.	24.	14.	26.	17.	15.	13.	13.
2060:	16.	25.	16.	15.	19.	19.	25.	16.	15.
2069:	15.	14.	20.	20.	11.	18.	13.	12.	12.
2078:	9.	21.	19.	21.	16.	18.	21.	8.	22.
2087:	15.	23.	12.	28.	15.	21.	18.	18.	18.
2096:	13.	20.	24.	18.	11.	13.	14.	20.	12.
2105:	17.	13.	12.	2.	14.	14.	18.	16.	11.

% COPPER

0.0095

LEAD ANALYSIS

10-MAY-83 08:34:20

K40

30427060 KB

SAMPLE WEIGHT: (UG) 12603.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RI4

ACQUIRE DATE: 09-MAY-83 19:22:16

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1009. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	12.	18.	17.	16.	12.	9.	23.	18.	8.
2139:	17.	10.	12.	11.	17.	14.	10.	12.	16.
2148:	24.	12.	11.	10.	15.	10.	15.	20.	21.
2157:	14.	13.	12.	23.	12.	10.	17.	12.	10.
2166:	12.	18.	16.	11.	22.	16.	22.	18.	13.
2175:	11.	14.	13.	16.	20.	13.	19.	14.	12.
2184:	14.	19.	18.	21.	17.	16.	14.	14.	22.
2193:	17.	9.	21.	14.	20.	11.	12.	16.	15.
2202:	18.	22.	17.	18.	18.	19.	14.	20.	13.
2211:	10.	18.	14.	23.	25.	16.	19.	20.	16.
2220:	21.	19.	18.	13.	18.	29.	21.	20.	19.
2229:	20.	25.	34.	50.	58.	88.	96.	114.	104.
2238:	100.	78.	59.	37.	50.	62.	48.	44.	60.
2247:	86.	87.	179.	346.	722.	1525.	2785.	4287.	5763.
2256:	6201.	5700.	4305.	2785.	1328.	617.	212.	75.	17.
2265:	10.	6.	5.	8.	5.	4.	4.	1.	7.
2274:	7.	5.	6.	8.	4.	4.	5.	6.	7.
2283:	8.	4.	7.	5.	5.	2.	4.	3.	1.
2292:	6.	3.	6.	8.	2.	5.	5.	8.	4.
2301:	2.	4.	7.	4.	1.	3.	5.	5.	6.
2310:	2.	6.	4.	9.	2.	6.	6.	4.	3.
2319:	6.	6.	4.	4.	4.	4.	7.	5.	9.
2328:	5.	4.	6.	12.	6.	6.	8.	5.	10.
2337:	10.	7.	8.	3.	1.	2.	5.	0.	5.
2346:	2.	4.	4.	3.	5.	5.	6.	1.	1.
2355:	5.	7.	5.	1.	2.	2.	7.	4.	5.
2364:	2.	5.	8.	3.	3.	4.	2.	4.	3.

% ANTIMONY

1.3760

% ARSENIC

0.0086

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 08:35:27

KIA

30427060 KB

SAMPLE WEIGHT: (UG) 12963.00
ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RI4
ACQUIRE DATE: 09-MAY-83 19:39:15 GEM 13
PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
ELAPSED REAL TIME: 1008. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
Z-COPPER	511.0	193.	829.	0.0125	0.0005	4.4
Z-ANTIMONY	564.1	116.	30976.	1.1409	0.0083	0.7
Z-ARSENIC	559.3	157.	376.	0.0086	0.0006	7.1

	CU	SB	AS
CNTS/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2044	2256	2236
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2242 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1980:	11.	19.	16.	18.	16.	17.	18.	15.	23.
1997:	20.	16.	17.	17.	21.	9.	9.	19.	8.
2006:	19.	18.	22.	26.	16.	15.	10.	15.	14.
2015:	13.	17.	23.	17.	17.	11.	5.	19.	13.
2024:	13.	23.	15.	13.	18.	20.	19.	17.	14.
2033:	26.	21.	28.	23.	36.	43.	71.	77.	81.
2042:	100.	101.	101.	100.	96.	80.	60.	65.	47.
2051:	27.	29.	33.	24.	22.	13.	15.	22.	11.
2060:	19.	14.	19.	14.	7.	14.	8.	12.	15.
2069:	15.	13.	17.	18.	16.	14.	15.	19.	13.
2078:	13.	15.	11.	8.	13.	14.	20.	21.	20.
2087:	13.	19.	5.	13.	13.	17.	13.	8.	10.
2096:	16.	14.	9.	13.	14.	15.	12.	17.	13.
2105:	14.	12.	9.	14.	12.	17.	15.	15.	13.

% COPPER 0.0125

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 08:35:06

K1A

30422060 RE

SAMPLE WEIGHT: (UG) 12963.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN K14

ACQUIRE DATE: 09-MAY-83 19:39:15

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1008. SEC

KEV/CHN: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	17.	22.	12.	13.	11.	6.	14.	10.	10.
2139:	15.	15.	10.	13.	14.	17.	17.	17.	7.
2148:	12.	14.	19.	10.	13.	14.	13.	18.	12.
2157:	15.	15.	10.	17.	14.	20.	10.	9.	16.
2166:	14.	12.	11.	12.	12.	11.	14.	10.	12.
2175:	10.	10.	8.	12.	18.	18.	18.	22.	23.
2184:	9.	15.	13.	16.	17.	20.	11.	10.	17.
2193:	11.	14.	10.	14.	16.	16.	8.	13.	17.
2202:	11.	18.	15.	12.	16.	18.	11.	15.	14.
2211:	10.	11.	14.	12.	9.	16.	12.	22.	17.
2220:	26.	10.	14.	22.	16.	25.	21.	17.	25.
2229:	22.	20.	38.	39.	64.	76.	110.	113.	111.
2238:	84.	70.	53.	44.	33.	38.	50.	46.	58.
2247:	56.	77.	120.	281.	564.	1212.	2366.	3600.	4833.
2256:	5452.	4855.	3618.	2384.	1194.	537.	196.	67.	20.
2265:	6.	7.	8.	4.	6.	6.	4.	1.	4.
2274:	5.	6.	2.	6.	5.	5.	6.	5.	3.
2283:	0.	4.	4.	8.	4.	6.	3.	4.	3.
2292:	4.	2.	7.	6.	5.	4.	4.	2.	2.
2301:	5.	1.	2.	3.	3.	1.	2.	3.	5.
2310:	5.	3.	3.	0.	8.	8.	2.	2.	4.
2319:	0.	2.	3.	2.	2.	2.	5.	6.	3.
2328:	2.	4.	5.	8.	10.	3.	12.	5.	7.
2337:	2.	2.	2.	2.	3.	6.	7.	3.	2.
2346:	4.	3.	7.	1.	3.	4.	6.	1.	4.
2355:	3.	3.	3.	3.	2.	5.	5.	1.	7.
2364:	3.	3.	5.	4.	3.	1.	6.	5.	4.

% ANTIMONY

1.1409

% ARSENIC

0.0086

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

10 MAY-83 08:37:03

K15B

30427060 KB

SAMPLE WEIGHT: (UG) 12834.00
 ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
 ACQUIRE DATE: 09-MAY-83 19:56:15 GEM 13
 PREFILTER TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
 ELAPSED REAL TIME: 1008. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	PKCND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
Z-COPPER	511.0	196.	794.	0.0122	0.0005	4.5
Z-ANTIMONY	564.1	124.	31071.	1.1594	0.0085	0.7
Z-ARSENIC	559.3	143.	427.	0.0100	0.0006	6.4
			CU	SB	AS	
CNTS/UG/MIN AT RD			52.8	14.0	26.16	
CENTROID CHANNEL			2044	2256	2236	
HALF-LIFE			12.8 H	2.7 D	26.3 H	
BACKGROUND SPACING			50 L&R	80 L&R	30 L	CH 2242 R
BACKGROUND CHANNELS			22 L&R	22 L&R	11 L	1 R
PEAK CHANNELS			13	13	5	

1980:	20.	15.	18.	19.	12.	17.	20.	17.	21.
1997:	14.	17.	18.	19.	11.	11.	12.	17.	13.
2006:	12.	19.	17.	16.	17.	17.	16.	13.	10.
2015:	21.	10.	8.	13.	13.	26.	14.	11.	11.
2024:	13.	12.	17.	20.	15.	16.	16.	17.	19.
2033:	21.	29.	18.	36.	36.	53.	65.	74.	87.
2042:	105.	97.	98.	80.	83.	77.	70.	58.	43.
2051:	37.	24.	27.	22.	23.	15.	12.	23.	19.
2060:	17.	12.	19.	15.	20.	15.	17.	21.	20.
2069:	17.	10.	15.	15.	9.	18.	10.	12.	18.
2078:	9.	15.	13.	7.	9.	15.	12.	13.	23.
2087:	12.	21.	12.	13.	10.	9.	19.	13.	8.
2096:	19.	10.	19.	12.	16.	13.	11.	19.	11.
2105:	6.	6.	10.	13.	10.	11.	19.	14.	7.

% COPPER 0.0122

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 08:37:31

K5H

30427060 RE

SAMPLE WEIGHT: (UG) 12834.00
ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
ACQUIRE DATE: 09-MAY-83 19:56:11 GEM 13
PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
ELAPSED REAL TIME: 1008. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

2130:	9.	13.	22.	9.	12.	12.	8.	15.	13.
2139:	13.	17.	20.	12.	15.	11.	13.	15.	12.
2148:	13.	15.	13.	18.	17.	9.	16.	11.	14.
2157:	11.	17.	12.	11.	10.	7.	16.	17.	15.
2166:	21.	20.	15.	7.	9.	7.	9.	13.	16.
2175:	16.	15.	11.	16.	13.	12.	18.	14.	19.
2184:	11.	13.	9.	14.	15.	13.	12.	12.	11.
2193:	8.	13.	11.	11.	9.	7.	17.	15.	10.
2202:	11.	10.	18.	17.	11.	16.	16.	14.	7.
2211:	13.	20.	21.	21.	15.	14.	14.	11.	16.
2220:	18.	19.	13.	9.	19.	18.	19.	25.	25.
2229:	13.	19.	37.	43.	52.	92.	120.	111.	117.
2238:	104.	67.	59.	41.	34.	46.	36.	49.	59.
2247:	64.	87.	141.	323.	599.	1327.	2361.	3557.	4839.
2256:	5367.	4958.	3629.	2248.	1254.	542.	190.	58.	18.
2265:	7.	5.	7.	3.	5.	5.	5.	3.	6.
2274:	6.	4.	5.	6.	5.	5.	5.	3.	8.
2283:	4.	1.	2.	1.	3.	2.	6.	4.	5.
2292:	3.	2.	3.	4.	3.	7.	6.	4.	3.
2301:	3.	3.	3.	1.	2.	4.	4.	1.	5.
2310:	4.	1.	2.	5.	4.	3.	3.	3.	3.
2319:	2.	3.	5.	0.	2.	2.	3.	3.	1.
2328:	5.	6.	3.	8.	7.	10.	12.	8.	5.
2337:	7.	2.	2.	3.	4.	3.	3.	4.	3.
2346:	4.	3.	4.	2.	3.	2.	6.	4.	1.
2355:	4.	2.	2.	4.	5.	3.	3.	2.	6.
2364:	4.	2.	8.	1.	6.	8.	7.	2.	1.

% ANTIMONY 1.1594

% ARSENIC 0.0100

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

10-MAY-83 08:38:30

K5C

30427060 KB

SAMPLE WEIGHT: (UG) 13192.00
 ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
 ACQUIRE DATE: 09-MAY-83 20:13:15 GEM 13
 PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
 ELAPSED REAL TIME: 1007. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	PKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
Z-COPPER	511.0	206.	761.	0.0116	0.0005	4.6
Z-ANTIMONY	564.1	129.	31462.	1.1456	0.0083	0.7
Z-ARSENIC	559.3	161.	426.	0.0098	0.0006	6.5

	CU	SE	AS
CNTS/UG/MIN AT RD	52.8	14.0	26.16
(CENTROID) CHANNEL	2044	2256	2236
HALF-THICK	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2241 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	21.	16.	20.	14.	15.	21.	28.	14.	25.
1997:	17.	14.	14.	11.	22.	20.	23.	16.	18.
2006:	16.	15.	17.	17.	24.	18.	9.	14.	15.
2015:	20.	21.	20.	17.	12.	9.	19.	14.	20.
2024:	16.	12.	17.	20.	10.	19.	23.	8.	14.
2033:	24.	26.	29.	34.	39.	55.	72.	77.	76.
2042:	97.	90.	91.	92.	90.	66.	66.	43.	52.
2051:	39.	29.	23.	21.	18.	21.	15.	15.	23.
2060:	18.	12.	12.	16.	24.	15.	12.	14.	15.
2069:	9.	13.	11.	14.	13.	16.	16.	13.	15.
2078:	13.	14.	12.	9.	6.	6.	19.	14.	10.
2087:	17.	10.	15.	14.	9.	18.	18.	15.	13.
2096:	7.	15.	14.	13.	17.	14.	13.	15.	12.
2105:	13.	19.	7.	13.	7.	4.	18.	9.	16.

% COPPER 0.0116

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 08:39:07

K5C

30427060 KB

SAMPLE WEIGHT: (UG) 13192.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 09-MAY-83 20:13:15

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1007. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	16.	12.	17.	18.	13.	8.	18.	16.	16.
2139:	18.	12.	13.	22.	14.	13.	13.	3.	14.
2148:	13.	10.	13.	21.	8.	17.	15.	12.	17.
2157:	13.	10.	13.	17.	10.	10.	7.	9.	7.
2166:	14.	13.	20.	9.	17.	5.	14.	17.	17.
2175:	9.	21.	10.	15.	23.	11.	20.	7.	13.
2184:	15.	12.	14.	11.	12.	10.	16.	8.	22.
2193:	16.	14.	10.	10.	9.	12.	12.	9.	13.
2202:	13.	17.	19.	7.	16.	16.	14.	15.	16.
2211:	15.	14.	15.	12.	17.	15.	16.	20.	23.
2220:	17.	17.	13.	18.	18.	8.	22.	7.	16.
2229:	17.	21.	26.	48.	60.	95.	115.	120.	131.
2238:	89.	83.	68.	35.	40.	43.	44.	36.	49.
2247:	59.	85.	147.	330.	658.	1269.	2293.	3792.	4847.
2256:	5420.	4943.	3844.	2302.	1163.	534.	196.	63.	25.
2265:	11.	3.	3.	2.	8.	1.	5.	1.	2.
2274:	2.	5.	5.	5.	4.	5.	4.	2.	5.
2283:	5.	5.	2.	8.	8.	2.	4.	3.	3.
2292:	6.	4.	6.	2.	4.	4.	2.	9.	3.
2301:	4.	4.	1.	6.	7.	2.	4.	4.	2.
2310:	3.	3.	7.	7.	2.	6.	7.	4.	2.
2319:	5.	3.	4.	3.	2.	2.	4.	4.	6.
2328:	3.	6.	7.	5.	9.	8.	6.	5.	6.
2337:	0.	1.	6.	6.	5.	2.	3.	5.	4.
2346:	4.	3.	5.	2.	3.	7.	1.	4.	5.
2355:	3.	4.	2.	4.	3.	3.	4.	5.	5.
2364:	7.	3.	5.	4.	3.	1.	1.	3.	5.

% ANTIMONY

1.1456

% ARSENIC

0.0098

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

10-MAY-83 08:40:14

K6A

3042/060 KB

SAMPLE WEIGHT: (UG) 12010.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 09-MAY-83 20:30:14

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1000. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	187.	779.	0.0132	0.0006	4.5
%-ANTIMONY	564.1	113.	29331.	1.1766	0.0087	0.7
%-ARSENIC	559.3	127.	399.	0.0101	0.0007	6.5

	CU	SB	AS
CNTS/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2043	2236	2236
HALF LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2242 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	18.	16.	15.	16.	13.	22.	21.	15.	18.
1997:	9.	11.	14.	17.	20.	10.	15.	15.	14.
2006:	12.	19.	26.	18.	9.	16.	16.	10.	23.
2015:	10.	16.	16.	13.	13.	14.	15.	10.	20.
2024:	16.	20.	23.	14.	23.	17.	14.	18.	16.
2033:	16.	14.	26.	43.	40.	60.	53.	59.	75.
2042:	75.	105.	116.	98.	80.	73.	79.	53.	34.
2051:	27.	28.	19.	16.	15.	22.	16.	13.	16.
2060:	7.	12.	12.	11.	12.	13.	13.	12.	10.
2069:	15.	10.	16.	12.	11.	6.	12.	10.	12.
2078:	13.	8.	9.	13.	17.	10.	13.	11.	8.
2087:	15.	16.	15.	8.	17.	17.	15.	11.	8.
2096:	15.	10.	10.	15.	10.	12.	14.	9.	14.
2105:	17.	18.	11.	8.	15.	12.	8.	15.	9.

% COPPER

0.0132

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 08:40:42

K6A

3042/060 KB

SAMPLE WLIGHT: (UG) 12010.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 09-MAY-83 20:30:14

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1008. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	15.	7.	11.	12.	20.	9.	14.	9.	13.
2139:	13.	7.	10.	15.	15.	11.	7.	7.	12.
2148:	12.	17.	3.	14.	13.	8.	11.	13.	12.
2157:	7.	15.	12.	16.	15.	12.	11.	22.	16.
2166:	14.	10.	10.	13.	10.	14.	12.	18.	10.
2175:	12.	15.	14.	12.	12.	8.	12.	18.	15.
2184:	7.	9.	14.	12.	15.	13.	14.	12.	10.
2193:	13.	11.	9.	10.	10.	12.	18.	11.	8.
2202:	12.	6.	6.	18.	9.	9.	19.	14.	10.
2211:	16.	15.	13.	14.	17.	15.	12.	10.	16.
2220:	17.	11.	14.	9.	24.	17.	16.	16.	15.
2229:	17.	27.	28.	37.	46.	73.	119.	121.	89.
2238:	83.	61.	42.	39.	23.	34.	37.	33.	51.
2247:	68.	82.	141.	287.	559.	1180.	2238.	3465.	4585.
2256:	5116.	4546.	3433.	2196.	1122.	579.	188.	73.	15.
2265:	4.	6.	5.	8.	6.	2.	5.	4.	5.
2274:	7.	4.	9.	8.	8.	4.	7.	1.	3.
2283:	3.	5.	2.	5.	4.	8.	3.	2.	2.
2292:	3.	3.	2.	2.	2.	4.	5.	9.	3.
2301:	6.	4.	3.	4.	3.	2.	6.	1.	6.
2310:	5.	4.	3.	2.	2.	7.	3.	7.	3.
2319:	7.	3.	1.	1.	1.	2.	4.	2.	4.
2328:	2.	4.	9.	5.	8.	9.	4.	5.	6.
2337:	4.	4.	2.	4.	2.	4.	4.	8.	5.
2346:	3.	2.	3.	4.	5.	5.	3.	0.	3.
2355:	6.	2.	3.	4.	3.	5.	3.	1.	4.
2364:	4.	1.	2.	0.	2.	5.	4.	3.	6.

% ANTIMONY

1.1766

% ARSENIC

0.0101

K&B

30427060 KB

SAMPLE WEIGHT: (UG) 12801.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 09-MAY-83 20:47:14

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1007. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	189.	779.	0.0126	0.0006	4.5
%-ANTIMONY	564.1	121.	30200.	1.1401	0.0084	0.7
%-ARSENIC	559.3	178.	396.	0.0095	0.0007	7.0
			CU	SE	AS	
CNTS/UG/MIN AT RD			52.8	14.0	26.16	
CENTROID CHANNEL			2044	2256	2236	
HALF-LIFE			12.8 H	2.7 D	26.3 H	
BACKGROUND SPACING			50 L&K	80 L&K	30 L	CH 2243 R
BACKGROUND CHANNELS			22 L&R	22 L&R	11 L	1 R
PEAK CHANNELS			13	13	5	

1980:	17.	12.	26.	19.	10.	21.	9.	14.	19.
1997:	12.	20.	19.	19.	12.	15.	19.	14.	17.
2006:	12.	18.	11.	12.	19.	19.	12.	17.	15.
2015:	18.	21.	13.	12.	15.	5.	12.	11.	10.
2024:	12.	9.	8.	17.	11.	14.	21.	17.	23.
2033:	25.	22.	30.	27.	41.	47.	66.	71.	90.
2042:	79.	95.	94.	78.	98.	83.	67.	57.	42.
2051:	45.	26.	20.	10.	15.	21.	18.	16.	12.
2060:	14.	20.	17.	17.	17.	14.	13.	15.	12.
2069:	15.	11.	13.	12.	10.	11.	17.	16.	9.
2078:	13.	13.	13.	14.	10.	17.	10.	16.	10.
2087:	11.	13.	15.	12.	12.	15.	9.	10.	13.
2096:	7.	23.	13.	9.	13.	16.	15.	12.	14.
2105:	11.	15.	14.	7.	14.	16.	18.	15.	15.

% COPPER

0.0126

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
 10-MAY-83 08:42:18

K&I: 30427060 RE:

SAMPLE WEIGHT: (UG) 12801.00
 ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RI4
 ACQUIRE DATE: 09-MAY-83 20:47:14 GEM 13
 FRESH LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
 ELAPSED REAL TIME: 1007. SEC KEV/CHN: 0.2500463
 LAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

2130:	20.	13.	17.	12.	14.	9.	11.	11.	11.
2139:	9.	15.	15.	12.	11.	18.	9.	7.	10.
2148:	11.	7.	14.	13.	15.	15.	10.	15.	13.
2157:	15.	10.	11.	14.	12.	8.	15.	14.	18.
2166:	12.	13.	13.	18.	10.	18.	9.	16.	8.
2175:	11.	9.	13.	16.	11.	16.	14.	15.	14.
2184:	14.	15.	11.	6.	9.	10.	13.	18.	18.
2193:	15.	11.	16.	12.	16.	19.	18.	13.	16.
2202:	15.	18.	13.	16.	16.	16.	19.	20.	19.
2211:	10.	10.	11.	14.	15.	16.	18.	16.	13.
2220:	12.	12.	17.	14.	18.	11.	15.	20.	14.
2229:	21.	25.	30.	37.	77.	82.	123.	127.	106.
2238:	91.	69.	52.	44.	42.	37.	49.	41.	46.
2247:	58.	95.	137.	277.	580.	1290.	2205.	3457.	4725.
2256:	5084.	4856.	3667.	2239.	1172.	506.	183.	58.	14.
2265:	14.	5.	3.	3.	4.	2.	6.	7.	1.
2274:	2.	2.	5.	6.	4.	3.	3.	7.	6.
2283:	2.	7.	4.	5.	4.	1.	4.	1.	4.
2292:	3.	2.	6.	5.	9.	8.	8.	5.	2.
2301:	5.	4.	4.	5.	3.	6.	3.	3.	1.
2310:	0.	3.	3.	6.	5.	6.	1.	1.	6.
2319:	4.	1.	6.	3.	3.	3.	1.	6.	5.
2328:	5.	8.	4.	8.	8.	9.	10.	10.	2.
2337:	3.	5.	2.	3.	3.	4.	3.	6.	3.
2346:	3.	5.	6.	0.	5.	5.	3.	6.	2.
2355:	3.	5.	4.	4.	3.	5.	7.	3.	5.
2364:	4.	3.	5.	6.	2.	3.	5.	1.	2.

% ANTIMONY 1.1401

% ARSENIC 0.0095

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

10-MAY-83 08:43:25

K6C

30427060 KB

SAMPLE WEIGHT: (UG) 12340.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 09-MAY-83 21:04:13

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1008. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	193.	664.	0.0113	0.0006	5.0
%-ANTIMONY	564.1	108.	29179.	1.1461	0.0085	0.7
%-ARSENIC	559.3	129.	379.	0.0095	0.0006	6.7
			CU	SB	AS	
CNTS/UG/MIN AT RD			52.8	14.0	26.16	
CENTROID CHANNEL			2044	2256	2237	
HAFT-LIFE			12.8 H	2.7 D	26.3 H	
BACKGROUND SPACING			50 L&R	80 L&R	30 L	CH 2245 R
BACKGROUND CHANNELS			22 L&R	22 L&R	11 L	1 R
PEAK CHANNELS			13	13	5	

1980:	18.	21.	18.	17.	15.	14.	23.	14.	22.
1997:	18.	10.	31.	6.	13.	10.	16.	9.	10.
2006:	11.	16.	23.	15.	11.	18.	14.	15.	12.
2015:	17.	14.	14.	22.	15.	20.	19.	19.	12.
2024:	11.	21.	21.	13.	18.	28.	11.	16.	24.
2033:	72.	20.	22.	27.	31.	54.	53.	76.	66.
2042:	69.	72.	111.	64.	83.	59.	64.	37.	49.
2051:	31.	24.	22.	15.	17.	14.	11.	16.	19.
2060:	14.	11.	13.	21.	11.	13.	10.	11.	13.
2069:	13.	10.	21.	9.	14.	12.	13.	11.	10.
2078:	16.	17.	10.	13.	15.	9.	10.	15.	8.
2087:	11.	18.	7.	9.	12.	12.	12.	11.	11.
2096:	9.	11.	15.	15.	18.	14.	13.	10.	11.
2105:	16.	12.	17.	10.	16.	19.	11.	10.	10.

% COPPER

0.0113

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
 10-MAY-83 08:43:53

K&C:

30427060 RE:

SAMPLE WEIGHT: (UG) 12340.00
 ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
 ACQUIRE DATE: 09-MAY-83 21:04:13 GEM 13
 PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
 ELAPSED REAL TIME: 1008. SEC KLV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

2130:	16.	8.	12.	9.	12.	16.	17.	18.	18.
2139:	19.	19.	10.	13.	12.	13.	6.	15.	10.
2148:	6.	8.	14.	15.	9.	6.	15.	10.	12.
2157:	7.	13.	11.	11.	12.	10.	12.	10.	11.
2166:	10.	10.	11.	10.	12.	8.	8.	16.	13.
2175:	12.	13.	8.	13.	15.	11.	11.	7.	17.
2184:	13.	9.	10.	16.	11.	10.	12.	16.	14.
2193:	11.	7.	21.	12.	8.	7.	14.	13.	8.
2202:	13.	14.	4.	14.	15.	11.	9.	7.	10.
2211:	10.	22.	13.	17.	13.	23.	14.	18.	9.
2220:	15.	19.	14.	14.	15.	15.	10.	11.	18.
2229:	18.	21.	33.	39.	61.	78.	120.	123.	102.
2238:	83.	78.	53.	40.	40.	42.	39.	39.	48.
2247:	70.	91.	155.	262.	598.	1170.	2192.	3527.	4627.
2256:	4953.	4620.	3452.	2125.	1083.	505.	178.	50.	21.
2265:	8.	6.	4.	6.	3.	2.	5.	4.	6.
2274:	3.	5.	5.	1.	3.	5.	6.	2.	7.
2283:	6.	2.	1.	5.	3.	7.	6.	7.	2.
2292:	1.	3.	10.	3.	6.	5.	4.	7.	6.
2301:	4.	2.	1.	7.	5.	1.	2.	6.	4.
2310:	5.	3.	1.	1.	6.	6.	2.	4.	5.
2319:	2.	4.	2.	1.	2.	4.	2.	3.	4.
2328:	4.	5.	8.	7.	5.	13.	7.	2.	3.
2337:	7.	3.	3.	2.	3.	5.	1.	3.	5.
2346:	3.	4.	3.	3.	7.	6.	2.	1.	2.
2355:	3.	2.	7.	4.	3.	4.	2.	1.	4.
2364:	2.	3.	1.	4.	2.	3.	4.	2.	4.

% ANTIMONY 1.1461

% ARSENIC 0.0095

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

10-MAY 83 08:45:00

K7A

3042/060 KB

SAMPLE WEIGHT: (UG) 13279.00

ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4

ACQUIRE DATE: 09-MAY-83 21:21:13 GEM 13

PULSE LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1008. SEC KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KLV

ELEMENT	PEAK ENERGY	BKGD	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	202.	726.	0.0117	0.0006	4.8
%-ANTIMONY	564.1	129.	30911.	1.1317	0.0083	0.7
%-ARSENIC	559.3	150.	392.	0.0092	0.0006	6.8

	CU	SB	AS
CNIS/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2044	2256	2236
HALF LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&K	80 L&K	30 L CH 2245 R
BACKGROUND CHANNELS	22 L&K	22 L&K	11 L J R
PEAK CHANNELS	13	13	5

1980:	11.	13.	18.	11.	15.	23.	15.	10.	9.
1997:	29.	20.	13.	15.	13.	22.	12.	14.	19.
2006:	22.	20.	12.	18.	22.	14.	8.	20.	18.
2015:	20.	18.	10.	15.	19.	8.	14.	21.	16.
2024:	13.	19.	14.	11.	9.	21.	24.	15.	20.
2033:	26.	23.	42.	29.	42.	41.	57.	56.	86.
2042:	87.	97.	96.	100.	68.	74.	70.	49.	51.
2051:	31.	31.	10.	19.	16.	14.	18.	16.	12.
2060:	13.	7.	17.	17.	14.	13.	14.	14.	16.
2069:	15.	18.	15.	14.	15.	9.	15.	9.	20.
2078:	16.	11.	16.	15.	17.	19.	10.	16.	10.
2087:	18.	10.	12.	20.	15.	15.	15.	10.	16.
2096:	17.	14.	11.	20.	19.	11.	14.	12.	23.
2105:	14.	8.	14.	16.	16.	16.	18.	14.	8.

% COPPER

0.0117

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 08:45:28

K/A

30427060 KB

SAMPLE WEIGHT: (UG) 13279.00
ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
ACQUIRE DATE: 09-MAY-83 21:21:13 GEM 13
PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
ELAPSED REAL TIME: 1008. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

2130:	12.	20.	9.	18.	12.	11.	13.	8.	7.
2139:	18.	13.	11.	4.	12.	12.	12.	13.	9.
2148:	11.	17.	13.	20.	14.	13.	14.	18.	6.
2157:	15.	11.	17.	15.	9.	8.	13.	13.	16.
2166:	16.	7.	19.	16.	14.	12.	9.	12.	9.
2175:	14.	16.	14.	13.	13.	14.	18.	12.	14.
2184:	14.	10.	11.	11.	14.	12.	17.	13.	12.
2193:	11.	14.	18.	10.	12.	19.	15.	19.	13.
2202:	15.	14.	16.	10.	18.	13.	10.	10.	18.
2211:	13.	12.	14.	10.	16.	15.	13.	15.	13.
2220:	10.	21.	10.	18.	19.	16.	19.	16.	13.
2229:	28.	16.	24.	47.	60.	77.	106.	122.	100.
2238:	116.	71.	54.	46.	39.	40.	41.	38.	49.
2247:	64.	82.	145.	338.	592.	1277.	2373.	3616.	4771.
2256:	5276.	4840.	3665.	2359.	1228.	515.	190.	66.	19.
2265:	13.	4.	4.	4.	5.	3.	4.	4.	5.
2274:	3.	5.	5.	10.	2.	6.	4.	7.	1.
2283:	8.	2.	4.	8.	4.	3.	8.	4.	2.
2292:	4.	4.	3.	1.	3.	0.	6.	8.	2.
2301:	3.	3.	2.	3.	4.	6.	4.	2.	5.
2310:	1.	2.	7.	6.	5.	7.	3.	6.	4.
2319:	3.	7.	1.	4.	3.	5.	7.	4.	4.
2328:	4.	10.	8.	12.	12.	19.	7.	6.	5.
2337:	3.	4.	4.	0.	3.	1.	5.	5.	5.
2346:	3.	5.	4.	1.	5.	2.	6.	2.	2.
2355:	2.	0.	4.	2.	7.	6.	4.	5.	5.
2364:	4.	4.	4.	4.	6.	2.	7.	3.	5.

% ANTIMONY 1.1317

% ARSENIC 0.0092

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 08:46:35

K7B

30427060 KB

SAMPLE WEIGHT: (UG) 13218.00
ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
ACQUIRE DATE: 09-MAY-83 21:38:13 GEM 13
PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
ELAPSED REAL TIME: 1007. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	187.	781.	0.0128	0.0006	4.5
%-ANTIMONY	564.1	112.	30829.	1.1373	0.0083	0.7
%-ARSENIC	559.3	136.	442.	0.0105	0.0006	6.1

	CU	SB	AS
CNTS/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2043	2236	2236
HAFT LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2242 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	14.	14.	14.	17.	17.	11.	14.	16.	21.
1997:	13.	17.	12.	16.	24.	19.	24.	11.	15.
2006:	17.	18.	19.	18.	12.	13.	15.	9.	17.
2015:	13.	15.	25.	11.	11.	15.	17.	12.	20.
2024:	18.	8.	12.	22.	25.	23.	14.	14.	23.
2033:	23.	22.	18.	33.	45.	43.	76.	76.	79.
2042:	87.	87.	89.	104.	101.	84.	52.	50.	33.
2051:	32.	27.	27.	21.	18.	18.	15.	14.	27.
2060:	13.	12.	13.	9.	12.	20.	13.	19.	14.
2069:	12.	17.	10.	15.	10.	13.	13.	12.	14.
2078:	15.	13.	13.	8.	11.	13.	16.	9.	8.
2087:	16.	14.	16.	12.	14.	16.	12.	12.	10.
2096:	13.	13.	17.	19.	13.	24.	14.	19.	17.
2105:	4.	11.	10.	16.	9.	13.	12.	11.	12.

% COPPER

0.0128

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
 10-MAY-83 08:47:04

K/F:

30427060 RE

SAMPLE WIGHT: (UG) 13218.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 09-MAY-83 21:38:13

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1007. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	11.	9.	8.	11.	9.	9.	11.	18.	14.
2139:	11.	11.	12.	9.	18.	16.	15.	14.	18.
2148:	16.	10.	11.	12.	15.	13.	18.	16.	6.
2157:	11.	10.	10.	9.	11.	16.	9.	11.	12.
2166:	7.	8.	13.	8.	8.	11.	15.	3.	9.
2175:	12.	17.	15.	14.	15.	10.	10.	10.	12.
2184:	12.	9.	23.	11.	20.	10.	17.	14.	12.
2193:	13.	14.	13.	10.	13.	16.	12.	17.	13.
2202:	14.	11.	13.	7.	15.	10.	14.	17.	11.
2211:	11.	13.	16.	14.	9.	10.	18.	23.	8.
2220:	15.	21.	22.	9.	18.	10.	15.	16.	22.
2229:	14.	27.	22.	32.	76.	78.	128.	123.	131.
2238:	93.	65.	43.	37.	32.	39.	36.	44.	59.
2247:	56.	82.	135.	267.	599.	1208.	2332.	3675.	4891.
2256:	5219.	4796.	3753.	2313.	1197.	491.	200.	59.	24.
2265:	14.	5.	5.	7.	4.	8.	5.	6.	1.
2274:	4.	4.	2.	4.	2.	3.	10.	1.	4.
2283:	6.	2.	3.	3.	5.	5.	3.	6.	3.
2292:	3.	1.	2.	5.	1.	4.	3.	3.	3.
2301:	3.	5.	5.	4.	6.	4.	3.	6.	4.
2310:	2.	4.	3.	3.	2.	5.	7.	6.	5.
2319:	5.	4.	6.	0.	3.	3.	5.	1.	0.
2328:	3.	5.	4.	5.	9.	10.	7.	5.	6.
2337:	1.	7.	3.	5.	1.	4.	2.	2.	2.
2346:	5.	3.	1.	2.	3.	1.	4.	1.	7.
2355:	3.	6.	1.	6.	4.	8.	2.	1.	4.
2364:	7.	2.	4.	1.	4.	4.	2.	5.	4.

% ANTIMONY

1.1373

% ARSENIC

0.0105

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
 10-MAY-83 08:48:11

K7C

30427060 KB

SAMPLE WEIGHT: (UG) 12913.00
 ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN R14
 ACQUIRE DATE: 09-MAY-83 21:55:12 GEM 13
 PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
 ELAPSED REAL TIME: 1008. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELLMFNT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	183.	707.	0.0121	0.0006	4.8
%-ANTIMONY	564.1	110.	30104.	1.1402	0.0084	0.7
%-ARSENIC	559.3	137.	391.	0.0096	0.0006	6.7

	CU	SB	AS
CNTS/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2043	2256	2236
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2244 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	12.	20.	17.	17.	19.	16.	15.	16.	15.
1997:	8.	10.	11.	14.	9.	19.	16.	21.	19.
2006:	17.	15.	14.	18.	19.	18.	12.	16.	10.
2015:	17.	18.	18.	11.	21.	14.	17.	17.	13.
2024:	12.	16.	10.	23.	19.	20.	16.	19.	17.
2033:	23.	20.	15.	35.	39.	46.	57.	72.	72.
2042:	83.	82.	74.	88.	78.	86.	64.	49.	34.
2051:	32.	19.	22.	21.	27.	16.	18.	15.	15.
2060:	13.	8.	14.	13.	14.	10.	12.	21.	11.
2069:	15.	8.	12.	14.	14.	14.	14.	11.	12.
2078:	13.	7.	11.	15.	7.	18.	19.	11.	16.
2087:	8.	15.	7.	15.	12.	19.	17.	8.	14.
2096:	16.	8.	14.	13.	15.	13.	15.	17.	17.
2105:	14.	13.	5.	8.	15.	10.	11.	20.	11.

% COPPER 0.0121

FITZ LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 08:48:39

K71

10422060 RE

SAMPLE WEIGHT: (UG) 12913.00
ACTIVATION: 09-MAY-83 09:47:00 NBS 10 MIN R14
ACQUIRE DATE: 09-MAY-83 21:55:12 GEM 13
PRESH LIVL TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
ELAPSED REAL TIME: 1000. SEC KEV/CHNI: 0.2500463
LAPSED LIVE TIME: 1000. SEC OFFSET: 0.0226080 KEV

2130:	12.	11.	9.	10.	7.	13.	12.	7.	15.
2139:	13.	18.	13.	15.	13.	12.	16.	12.	16.
2148:	5.	8.	11.	9.	18.	20.	13.	12.	15.
2157:	9.	10.	12.	16.	8.	18.	14.	11.	12.
2166:	10.	12.	10.	8.	6.	15.	10.	11.	8.
2175:	12.	12.	17.	10.	14.	13.	12.	12.	8.
2184:	9.	7.	12.	12.	10.	20.	14.	9.	15.
2193:	15.	15.	10.	12.	17.	10.	19.	6.	5.
2202:	12.	13.	10.	12.	16.	13.	10.	13.	17.
2211:	16.	11.	15.	14.	11.	24.	9.	15.	13.
2220:	12.	15.	14.	14.	16.	14.	10.	14.	17.
2229:	17.	18.	27.	42.	73.	76.	94.	122.	97.
2238:	88.	69.	41.	39.	46.	35.	22.	37.	43.
2247:	68.	83.	127.	266.	603.	1246.	2312.	3625.	4704.
2256:	5254.	4644.	3569.	2208.	1119.	497.	167.	57.	20.
2265:	7.	5.	3.	4.	6.	4.	6.	5.	5.
2274:	4.	7.	0.	2.	4.	5.	8.	3.	2.
2283:	5.	4.	2.	6.	9.	4.	4.	4.	6.
2292:	1.	4.	5.	9.	2.	4.	6.	3.	5.
2301:	4.	2.	8.	0.	2.	3.	5.	1.	1.
2310:	4.	2.	7.	3.	5.	3.	5.	5.	1.
2319:	3.	3.	8.	8.	2.	4.	1.	3.	5.
2328:	7.	5.	7.	5.	5.	9.	9.	4.	5.
2337:	3.	1.	4.	1.	3.	4.	2.	4.	4.
2346:	0.	2.	4.	4.	1.	3.	4.	1.	6.
2355:	4.	8.	3.	3.	3.	3.	5.	3.	2.
2364:	6.	4.	2.	2.	5.	1.	7.	6.	5.

% ANTIMONY

1.1402

% ARSENIC

0.0096

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 08:49:47

KBA

30427060 RE

SAMPLE WEIGHT: (UG) 10338.00
ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN R14
ACQIRL DATE: 09-MAY-83 22:12:12 GEM 13
PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
ELAPSED REAL TIME: 1009. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	223.	629.	0.0105	0.0006	5.3
%-ANTIMONY	564.1	134.	36526.	1.3434	0.0093	0.7
%-ARSENIC	559.3	169.	426.	0.0102	0.0007	6.6

	CU	SB	AS
CNTS/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2043	2256	2236
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2244 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1980:	19.	26.	15.	14.	18.	22.	16.	21.	19.
1997:	22.	13.	13.	21.	28.	18.	20.	23.	21.
2006:	15.	18.	25.	20.	21.	17.	12.	14.	20.
2015:	12.	24.	14.	16.	14.	23.	11.	18.	19.
2024:	17.	15.	17.	17.	11.	20.	25.	22.	31.
2033:	18.	22.	29.	31.	36.	39.	46.	64.	85.
2042:	73.	89.	101.	78.	75.	62.	49.	55.	30.
2051:	32.	19.	25.	26.	22.	17.	16.	14.	13.
2060:	14.	15.	13.	8.	14.	15.	14.	16.	13.
2069:	24.	24.	18.	15.	17.	9.	19.	16.	21.
2078:	10.	19.	14.	15.	13.	13.	8.	16.	19.
2087:	17.	15.	15.	15.	15.	21.	19.	12.	14.
2096:	14.	16.	17.	12.	17.	19.	17.	18.	13.
2105:	11.	17.	14.	12.	15.	17.	17.	17.	19.

% COPPER 0.0105

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 08:50:15

KDA

30427060 RB

SAMPLE WLIGHT: (UG) 13338.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRI DATE: 09-MAY-83 22:12:12

GEM 13

PRESLI LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1009. SEC

KEV/CHNL: 0.2500463

FLASHED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	24.	14.	16.	17.	25.	13.	14.	18.	14.
2139:	16.	9.	17.	12.	23.	15.	15.	8.	14.
2148:	13.	15.	10.	16.	21.	22.	14.	13.	13.
2157:	17.	13.	20.	14.	7.	14.	21.	20.	20.
2166:	8.	12.	14.	13.	20.	13.	19.	14.	10.
2175:	24.	17.	19.	13.	10.	16.	15.	20.	18.
2184:	16.	19.	10.	7.	21.	16.	14.	15.	13.
2193:	18.	16.	14.	12.	13.	25.	23.	17.	16.
2202:	14.	22.	14.	11.	17.	18.	13.	13.	17.
2211:	14.	19.	15.	17.	11.	14.	23.	20.	14.
2220:	13.	19.	11.	17.	14.	18.	16.	25.	25.
2229:	29.	25.	38.	47.	68.	111.	115.	130.	109.
2238:	112.	50.	57.	53.	51.	45.	45.	55.	63.
2247:	81.	105.	174.	335.	800.	1519.	2785.	4359.	5591.
2256:	6297.	5656.	4371.	2738.	1400.	595.	214.	52.	22.
2265:	5.	8.	2.	4.	6.	4.	7.	4.	5.
2274:	4.	5.	6.	6.	4.	6.	9.	5.	4.
2283:	8.	8.	8.	6.	5.	8.	7.	4.	4.
2292:	2.	5.	10.	4.	5.	5.	1.	3.	6.
2301:	2.	1.	7.	4.	0.	1.	8.	2.	4.
2310:	10.	11.	5.	5.	3.	8.	4.	2.	4.
2319:	7.	3.	4.	2.	0.	7.	6.	7.	4.
2328:	12.	7.	7.	5.	8.	15.	7.	8.	4.
2337:	1.	3.	3.	1.	1.	3.	2.	4.	3.
2346:	3.	3.	3.	5.	0.	5.	4.	5.	7.
2355:	2.	3.	4.	5.	2.	6.	6.	4.	3.
2364:	5.	2.	5.	4.	4.	2.	3.	2.	7.

% ANTIMONY

1.3434

% ARSENIC

0.0102

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 08:51:22

KBB

30427060 KB

SAMPLE WEIGHT: (UG) 12395.00
ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
ACQUIRE DATE: 09-MAY-83 22:46:11 GEM 13
PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
ELAPSED REAL TIME: 1009. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COOPER	511.0	211.	591.	0.0110	0.0006	5.5
%-ANTIMONY	564.1	126.	33869.	1.3485	0.0096	0.7
%-ARSENIC	559.3	147.	489.	0.0128	0.0007	5.8
			CU	SB	AS	
CNTS/UG/MIN AT KD			52.8	14.0	26.16	
CENTROID CHANNEL			2043	2256	2236	
HALF-HEIGHT			12.8 H	2.7 D	26.3 H	
BACKGROUND SPACING			50 L&R	80 L&R	30 L	CH 2243 R
BACKGROUND CHANNELS			22 L&R	22 L&R	11 L	1 R
PEAK CHANNELS			13	13	5	

1988:	19.	26.	17.	23.	11.	14.	21.	18.	15.
1997:	18.	16.	20.	19.	24.	14.	20.	14.	20.
2006:	15.	20.	17.	17.	24.	14.	24.	24.	13.
2015:	20.	14.	17.	15.	16.	18.	12.	18.	14.
2024:	19.	23.	18.	17.	26.	22.	18.	18.	24.
2033:	23.	27.	35.	26.	35.	41.	61.	52.	66.
2042:	71.	77.	85.	94.	61.	67.	50.	42.	22.
2051:	23.	32.	20.	26.	20.	18.	16.	18.	19.
2060:	20.	19.	19.	10.	20.	25.	9.	18.	18.
2069:	19.	18.	17.	11.	21.	21.	12.	13.	20.
2078:	13.	16.	17.	22.	11.	16.	18.	19.	15.
2087:	14.	17.	13.	18.	13.	13.	14.	17.	12.
2096:	10.	14.	18.	8.	9.	18.	10.	15.	23.
2105:	17.	14.	14.	20.	10.	12.	14.	12.	14.

% COOPER 0.0110

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 08:51:51

KBB

30427060 RE

SAMPLE WEIGHT: (UG) 12395.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN R14

ACQUIRE DATE: 09-MAY-83 22:46:11

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1009. SEC

KEV/CHNL: 0.2500463

FLASHED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	13.	13.	13.	18.	12.	16.	9.	7.	9.
2139:	23.	14.	21.	14.	11.	17.	15.	22.	17.
2148:	18.	11.	16.	15.	15.	9.	13.	13.	21.
2157:	11.	12.	18.	12.	13.	13.	14.	18.	17.
2166:	15.	18.	7.	17.	15.	11.	4.	13.	10.
2175:	21.	16.	9.	16.	20.	14.	15.	15.	16.
2184:	17.	15.	20.	10.	28.	22.	15.	13.	10.
2193:	11.	19.	10.	11.	15.	18.	9.	17.	16.
2202:	15.	13.	15.	12.	14.	9.	14.	15.	11.
2211:	13.	14.	17.	16.	11.	19.	17.	19.	17.
2220:	13.	15.	19.	19.	20.	21.	21.	15.	22.
2229:	20.	25.	32.	47.	69.	113.	121.	140.	126.
2238:	117.	69.	58.	58.	42.	38.	42.	44.	69.
2247:	61.	89.	176.	321.	655.	1382.	2588.	4058.	5233.
2256:	5825.	5249.	4020.	2554.	1359.	563.	188.	69.	21.
2265:	6.	4.	3.	7.	3.	3.	5.	6.	5.
2274:	9.	6.	5.	5.	1.	2.	3.	2.	2.
2283:	3.	2.	4.	3.	4.	2.	4.	5.	3.
2292:	2.	4.	0.	8.	7.	6.	3.	2.	10.
2301:	5.	3.	3.	2.	5.	8.	4.	3.	6.
2310:	5.	1.	3.	3.	3.	3.	2.	2.	4.
2319:	6.	6.	5.	4.	4.	3.	4.	3.	6.
2328:	2.	4.	5.	9.	11.	10.	7.	4.	4.
2337:	2.	2.	4.	5.	6.	3.	7.	2.	3.
2346:	4.	1.	0.	1.	4.	1.	2.	5.	1.
2355:	4.	1.	2.	7.	1.	4.	4.	5.	5.
2364:	4.	3.	3.	4.	4.	8.	2.	3.	6.

% ANTIMONY

1.3485

% ARSENIC

0.0128

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

10-MAY-83 08:52:57

KAC

30427060 KB

SAMPLE WEIGHT: (UG) 12398.00
 ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RI4
 ACQUIRE DATE: 09-MAY-83 22:46:11 GEM 13
 PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
 ELAPSED REAL TIME: 1009. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	211.	591.	0.0110	0.0006	5.5
%-ANTIMONY	564.1	126.	33869.	1.3482	0.0096	0.7
%-ARSENIC	559.3	147.	489.	0.0128	0.0007	5.8

	CU	SB	AS
CNIS/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2043	2236	2236
HALI-LTLE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2243 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	19.	26.	17.	23.	11.	14.	21.	18.	15.
1997:	18.	16.	20.	19.	24.	14.	20.	14.	20.
2006:	15.	20.	17.	17.	24.	14.	24.	24.	13.
2015:	20.	14.	17.	15.	16.	18.	12.	18.	14.
2024:	19.	23.	18.	17.	26.	22.	18.	18.	24.
2033:	23.	27.	35.	26.	35.	41.	61.	52.	66.
2042:	71.	77.	85.	94.	61.	67.	50.	42.	22.
2051:	23.	32.	20.	26.	20.	18.	16.	18.	19.
2060:	20.	19.	19.	10.	20.	25.	9.	18.	18.
2069:	19.	18.	17.	11.	21.	21.	12.	13.	20.
2078:	13.	16.	17.	22.	11.	16.	18.	19.	15.
2087:	14.	17.	13.	18.	13.	13.	14.	17.	12.
2096:	10.	14.	18.	8.	9.	18.	10.	15.	23.
2105:	17.	14.	14.	20.	10.	12.	14.	12.	14.

% COPPER

0.0110

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 08:53:26

KHC

3042/060 KB

SAMPLE WEIGHT: (UG) 12398.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 09-MAY-83 22:46:11

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1009. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	13.	13.	13.	18.	12.	16.	9.	7.	9.
2139:	23.	14.	21.	14.	11.	17.	15.	22.	17.
2148:	18.	11.	16.	15.	15.	9.	13.	13.	21.
2157:	11.	12.	18.	12.	13.	13.	14.	18.	17.
2166:	15.	18.	7.	12.	15.	11.	4.	13.	10.
2175:	21.	16.	9.	16.	20.	14.	15.	15.	16.
2184:	17.	15.	20.	10.	28.	22.	15.	13.	10.
2193:	11.	19.	10.	11.	15.	18.	9.	17.	16.
2202:	15.	13.	15.	12.	14.	9.	14.	15.	11.
2211:	13.	14.	17.	16.	11.	19.	17.	19.	17.
2220:	13.	15.	19.	19.	20.	21.	21.	15.	22.
2229:	20.	25.	32.	47.	69.	113.	121.	140.	126.
2238:	117.	69.	58.	58.	42.	38.	42.	44.	69.
2247:	61.	89.	176.	321.	655.	1382.	2588.	4058.	5293.
2256:	5825.	5249.	4020.	2554.	1359.	563.	188.	69.	21.
2265:	6.	4.	3.	7.	3.	3.	5.	6.	5.
2274:	9.	6.	5.	5.	1.	2.	3.	2.	2.
2283:	3.	2.	4.	3.	4.	2.	4.	5.	3.
2292:	2.	4.	0.	8.	7.	6.	3.	2.	10.
2301:	5.	3.	3.	2.	5.	8.	4.	3.	6.
2310:	5.	1.	3.	3.	3.	3.	2.	2.	4.
2319:	6.	6.	5.	4.	4.	3.	4.	3.	6.
2328:	2.	4.	5.	9.	11.	10.	7.	4.	4.
2337:	7.	7.	4.	5.	6.	3.	7.	2.	3.
2346:	4.	1.	0.	1.	4.	1.	2.	5.	1.
2355:	4.	1.	2.	7.	1.	4.	4.	5.	5.
2364:	4.	3.	3.	4.	4.	8.	2.	3.	6.

% ANTIMONY

1.3482

% ARSENIC

0.0128

FEDERAL BUREAU OF INVESTIGATION WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 08:54:33

K2A

30427060 RE

SAMPLE WIGHT: (UG) 12359.00
ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
ACQUIR DATE: 09-MAY-83 23:03:11 GEM 13
PRESLT LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
ELAPSED REAL TIME: 1007. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGD	AREA	CONCENTR.	1 SIGMA DEV	% DEV
Z-COPPER	511.0	163.	594.	0.0113	0.0006	5.2
Z-ANTIMONY	564.1	107.	28591.	1.1451	0.0086	0.7
Z-ARSENIC	559.3	141.	368.	0.0097	0.0007	7.0

	CU	SE	AS
CNTS/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2044	2255	2236
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2243 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1980:	14.	16.	15.	18.	14.	13.	13.	18.	16.
1997:	17.	16.	19.	15.	28.	19.	17.	14.	19.
2006:	17.	18.	13.	12.	15.	14.	22.	14.	18.
2015:	11.	16.	24.	10.	21.	14.	13.	15.	12.
2024:	18.	15.	21.	17.	14.	11.	21.	13.	18.
2033:	16.	21.	28.	26.	29.	40.	58.	55.	58.
2042:	75.	74.	75.	61.	62.	55.	63.	42.	39.
2051:	24.	24.	22.	12.	21.	13.	15.	13.	12.
2060:	12.	11.	8.	14.	11.	15.	6.	12.	11.
2069:	10.	6.	10.	11.	13.	12.	13.	5.	16.
2078:	15.	14.	17.	10.	11.	10.	21.	17.	12.
2087:	10.	8.	12.	12.	9.	10.	7.	8.	11.
2096:	7.	13.	4.	8.	5.	13.	9.	7.	17.
2105:	18.	7.	10.	19.	13.	9.	15.	10.	9.

% COPPER 0.0113

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 08:55:01

KYA

30427060 RE:

SAMPLE WEIGHT: (UG) 12359.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 09-MAY-83 23:03:11

GEM 13

PRESIDENTIAL TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1007. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	14.	10.	14.	12.	9.	10.	9.	10.	18.
2139:	12.	5.	6.	14.	14.	14.	12.	12.	11.
2148:	9.	9.	13.	12.	11.	8.	14.	12.	17.
2157:	16.	10.	19.	12.	7.	14.	15.	13.	16.
2166:	16.	13.	12.	21.	13.	13.	9.	10.	11.
2175:	12.	11.	12.	14.	10.	8.	11.	11.	11.
2184:	12.	14.	15.	6.	15.	12.	17.	9.	16.
2193:	14.	14.	13.	12.	16.	10.	9.	10.	9.
2202:	16.	13.	12.	11.	11.	14.	9.	14.	18.
2211:	14.	18.	16.	18.	11.	10.	12.	13.	17.
2220:	13.	13.	16.	21.	15.	10.	15.	33.	15.
2229:	17.	16.	28.	48.	67.	74.	107.	108.	102.
2238:	84.	72.	48.	32.	36.	30.	35.	39.	34.
2247:	54.	78.	154.	256.	538.	1143.	2091.	3363.	4522.
2256:	4954.	4507.	3461.	2063.	1144.	502.	153.	44.	17.
2265:	12.	4.	4.	6.	3.	2.	4.	2.	5.
2274:	4.	5.	4.	1.	3.	7.	5.	3.	4.
2283:	7.	5.	2.	2.	3.	5.	2.	4.	1.
2292:	4.	1.	5.	2.	4.	3.	6.	7.	2.
2301:	2.	4.	3.	2.	4.	4.	6.	1.	6.
2310:	2.	1.	3.	3.	2.	4.	2.	1.	6.
2319:	3.	3.	2.	3.	5.	5.	3.	2.	1.
2328:	2.	3.	5.	5.	9.	9.	3.	8.	6.
2337:	4.	4.	5.	0.	2.	1.	4.	5.	1.
2346:	4.	6.	5.	3.	3.	3.	1.	5.	5.
2355:	3.	7.	3.	2.	3.	7.	6.	1.	2.
2364:	5.	2.	1.	5.	2.	3.	6.	2.	6.

% ANTIMONY

1.1451

% ARSENIC

0.0097

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

10-MAY-83 08:56:08

K9B

30427060 KB

SAMPLE WEIGHT: (UG) 12517.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 09-MAY-83 23:20:11

GEM 13

PRESH LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1007. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	PKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
Z-COPPER	511.0	174.	703.	0.0134	0.0006	4.8
Z-ANTIMONY	564.1	118.	29014.	1.1509	0.0086	0.7
Z-ARSENIC	559.3	160.	366.	0.0096	0.0007	7.2
			CU	SE	AS	
CNTS/UG/MIN AT RD			52.8	14.0	26.16	
CENTROID CHANNEL			2043	2256	2236	
HALF-LIFE			12.8 H	2.7 D	26.3 H	
BACKGROUND SPACING			50 L&R	80 L&R	30 L	CH 2243 R
BACKGROUND CHANNELS			22 L&R	22 L&R	11 L	1 R
PEAK CHANNELS			13	13	5	

1980:	11.	11.	14.	16.	11.	18.	25.	18.	13.
1997:	20.	16.	17.	11.	14.	22.	11.	18.	18.
2006:	17.	13.	15.	12.	16.	17.	16.	10.	15.
2015:	18.	15.	20.	14.	14.	12.	10.	20.	13.
2024:	19.	10.	10.	7.	14.	17.	18.	12.	15.
2033:	31.	23.	26.	27.	45.	38.	59.	61.	77.
2042:	84.	81.	91.	79.	74.	72.	62.	54.	35.
2051:	36.	21.	28.	16.	20.	16.	16.	11.	13.
2060:	14.	10.	8.	15.	12.	12.	14.	16.	12.
2069:	10.	15.	19.	10.	11.	10.	8.	18.	9.
2078:	12.	5.	13.	15.	8.	11.	15.	15.	11.
2087:	4.	8.	9.	14.	9.	9.	10.	9.	14.
2096:	10.	12.	17.	16.	12.	9.	11.	16.	14.
2105:	18.	12.	12.	20.	12.	18.	9.	14.	12.

% COPPER

0.0134

FELT LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 08:56:37

KYE

30427060 KE

SAMPLE WEIGHT: (UG) 12517.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 09-MAY-83 23:20:11

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1007. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	8.	9.	10.	15.	10.	11.	20.	11.	10.
2139:	13.	8.	11.	16.	16.	13.	9.	12.	12.
2148:	10.	14.	17.	10.	12.	7.	7.	8.	17.
2157:	8.	7.	11.	11.	14.	12.	16.	10.	8.
2166:	19.	17.	10.	9.	12.	13.	10.	12.	20.
2175:	13.	11.	13.	12.	12.	13.	13.	9.	11.
2184:	17.	17.	7.	12.	12.	15.	7.	10.	14.
2193:	14.	14.	14.	17.	15.	12.	6.	11.	11.
2202:	14.	13.	19.	12.	17.	14.	16.	10.	18.
2211:	16.	7.	13.	13.	10.	14.	10.	17.	19.
2220:	14.	15.	6.	21.	17.	14.	20.	25.	16.
2229:	26.	18.	23.	49.	52.	74.	98.	95.	102.
2238:	88.	63.	49.	28.	28.	22.	35.	54.	52.
2247:	66.	71.	136.	238.	558.	1242.	2188.	3400.	4637.
2256:	4876.	4602.	3456.	2147.	1143.	477.	168.	46.	21.
2265:	6.	3.	5.	5.	5.	3.	10.	3.	5.
2274:	5.	4.	5.	4.	5.	7.	2.	4.	3.
2283:	5.	2.	7.	4.	3.	2.	7.	5.	4.
2292:	4.	3.	2.	1.	5.	9.	8.	6.	4.
2301:	6.	6.	4.	0.	3.	3.	1.	4.	6.
2310:	3.	0.	3.	2.	4.	3.	4.	6.	5.
2319:	3.	4.	4.	4.	2.	4.	5.	5.	1.
2328:	4.	6.	7.	8.	7.	8.	6.	9.	2.
2337:	5.	4.	3.	3.	3.	3.	2.	4.	5.
2346:	6.	2.	3.	0.	1.	6.	3.	0.	6.
2355:	5.	4.	6.	5.	3.	2.	4.	8.	2.
2364:	0.	2.	3.	7.	7.	6.	3.	2.	4.

% ANTIMONY

1.1509

% ARSENIC

0.0096

FEDERAL BUREAU OF INVESTIGATION WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 08:57:44

K9C

3042/060 KB

SAMPLE WLIGHT: (UG) 12600.00
ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
ACQUIRE DATE: 09-MAY-83 23:37:10 GEM 13
PRESET LIVL TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
ELAPSED REAL TIME: 1008. SEC KEV/CHNL: 0.2500463
ELAPSED LIVL TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
Z-COPPER	511.0	189.	661.	0.0127	0.0006	5.0
Z-ANTIMONY	564.1	111.	20800.	1.1383	0.0085	0.7
Z-ARSENIC	559.3	139.	376.	0.0099	0.0007	6.9

	CU	SE	AS
CNTS/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2045	2256	2236
HALF LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2242 R
BACKGROUND CHANNELS	22 L&R	27 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	16.	16.	18.	16.	17.	13.	18.	13.	17.
1997:	11.	20.	14.	8.	14.	12.	8.	14.	20.
2006:	17.	13.	17.	21.	10.	20.	15.	17.	11.
2015:	14.	17.	13.	25.	23.	14.	20.	11.	13.
2024:	17.	17.	9.	15.	13.	11.	24.	22.	15.
2033:	17.	26.	31.	26.	34.	29.	59.	64.	86.
2042:	71.	83.	77.	82.	81.	70.	59.	41.	41.
2051:	36.	23.	16.	19.	15.	12.	17.	14.	18.
2060:	16.	12.	10.	13.	14.	16.	14.	12.	14.
2069:	18.	7.	14.	15.	11.	4.	9.	8.	17.
2078:	16.	12.	9.	6.	14.	8.	17.	9.	14.
2087:	11.	12.	7.	11.	14.	12.	6.	18.	13.
2096:	9.	20.	16.	23.	13.	18.	14.	9.	13.
2105:	14.	14.	9.	12.	19.	12.	5.	13.	17.

Z COPPER

0.0127

PHILIP DEBARTORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 08:58:12

KVC

10427060 RE

SAMPLE WEIGHT: (UG) 12600.00
ACTIVATION: 09-MAY 83 09:49:00 NKS 10 MIN RT4
ACQUIRE DATE: 09-MAY-83 23:37:10 GEM 13
PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
ELAPSED REAL TIME: 1008. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

2130:	13.	7.	11.	14.	19.	14.	10.	10.	14.
2139:	12.	7.	10.	17.	15.	7.	6.	9.	9.
2148:	16.	13.	12.	19.	12.	8.	10.	11.	8.
2157:	15.	13.	11.	13.	19.	5.	11.	14.	20.
2166:	12.	6.	9.	9.	13.	12.	9.	12.	14.
2175:	12.	17.	14.	11.	8.	10.	10.	13.	10.
2184:	10.	10.	15.	15.	8.	13.	19.	17.	12.
2193:	11.	14.	8.	15.	18.	9.	7.	9.	13.
2202:	13.	7.	12.	15.	14.	9.	8.	18.	18.
2211:	12.	19.	15.	13.	13.	10.	10.	17.	11.
2220:	15.	17.	14.	25.	9.	12.	15.	18.	21.
2229:	19.	24.	27.	40.	61.	77.	111.	109.	91.
2238:	97.	60.	50.	39.	31.	37.	36.	39.	41.
2247:	56.	78.	140.	266.	611.	1215.	2154.	3410.	4542.
2256:	4864.	4511.	3391.	2245.	1091.	455.	156.	62.	14.
2265:	11.	2.	5.	3.	6.	5.	1.	8.	4.
2274:	4.	2.	3.	3.	0.	2.	4.	3.	5.
2283:	8.	5.	4.	6.	5.	4.	6.	2.	8.
2292:	3.	4.	6.	6.	2.	2.	2.	5.	3.
2301:	2.	4.	2.	2.	3.	2.	3.	3.	6.
2310:	2.	3.	4.	1.	1.	3.	1.	3.	4.
2319:	7.	5.	5.	3.	3.	3.	4.	5.	1.
2328:	6.	5.	6.	3.	6.	10.	6.	13.	8.
2337:	4.	2.	1.	3.	3.	4.	4.	4.	4.
2346:	1.	4.	3.	1.	0.	2.	1.	5.	2.
2355:	2.	5.	4.	3.	2.	4.	3.	4.	2.
2364:	3.	4.	2.	2.	2.	3.	5.	4.	4.

% ANTIMONY 1.1383

% ARSENIC 0.0077

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

10-MAY-83 08:59:14

K10A

30427060 RB

SAMPLE WEIGHT: (UG) 12676.00
 ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
 ACQUIRE DATE: 09-MAY-83 23:54:10 GEM 13
 PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
 ELAPSED REAL TIME: 1007. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	190.	632.	0.0122	0.0006	5.2
%-ANTIMONY	564.1	115.	28984.	1.1421	0.0085	0.7
%-ARSENIC	559.3	133.	349.	0.0092	0.0007	7.2

	CU	SB	AS
CNTS/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2044	2256	2236
HAIF-HEIGHT	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2245 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	13.	19.	9.	23.	13.	22.	12.	14.	9.
1997:	14.	13.	16.	8.	16.	7.	16.	14.	11.
2006:	11.	13.	13.	18.	9.	19.	10.	20.	20.
2015:	18.	21.	8.	18.	9.	15.	15.	21.	6.
2024:	13.	23.	14.	12.	22.	17.	12.	19.	24.
2033:	17.	19.	22.	30.	28.	37.	46.	69.	71.
2042:	89.	78.	87.	81.	61.	59.	61.	46.	37.
2051:	32.	24.	29.	20.	17.	13.	17.	24.	11.
2060:	18.	20.	17.	12.	17.	10.	12.	8.	11.
2069:	17.	16.	11.	10.	12.	14.	9.	9.	15.
2078:	9.	14.	14.	14.	14.	11.	11.	17.	15.
2087:	9.	16.	10.	19.	14.	18.	14.	15.	13.
2096:	13.	15.	13.	14.	16.	9.	16.	7.	14.
2105:	15.	9.	14.	11.	15.	17.	9.	12.	15.

% COPPER

0.0122

**FIFTY AND FORTY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 08:59:47**

K100

3042/060 KB

SAMPLE WEIGHT: (UG) 12676.00
 ACTIVATION: 09-MAY 83 09:49:00 NBS 10 MIN RT4
 ACQUIRE DATE: 09-MAY-83 23:54:10 GEM 13
 PREFET LVL TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
 ELAPSED REAL TIME: 1007. SEC KEV/CHNL: 0.2500463
 ELAPSED LVL TIME: 1000. SEC OFFSET: -0.0226080 KEV

2130:	12.	12.	5.	16.	13.	9.	15.	17.	10.
2139:	8.	10.	13.	14.	13.	12.	12.	16.	20.
2148:	11.	20.	7.	13.	7.	10.	9.	16.	13.
2157:	14.	8.	13.	7.	11.	12.	15.	13.	14.
2166:	8.	13.	12.	23.	10.	13.	11.	6.	11.
2175:	17.	12.	15.	15.	14.	12.	10.	11.	10.
2184:	15.	10.	9.	11.	8.	5.	9.	11.	9.
2193:	10.	15.	15.	10.	10.	17.	19.	10.	16.
2202:	16.	11.	15.	12.	15.	9.	12.	10.	7.
2211:	10.	6.	17.	17.	12.	16.	12.	14.	30.
2220:	16.	6.	9.	19.	15.	16.	25.	16.	14.
2229:	23.	14.	32.	40.	56.	65.	105.	100.	108.
2238:	89.	58.	50.	39.	35.	38.	36.	35.	45.
2247:	46.	70.	111.	270.	599.	1199.	2091.	3491.	4592.
2256:	4974.	4602.	3485.	2160.	1015.	446.	175.	55.	23.
2265:	7.	7.	2.	5.	4.	7.	8.	4.	3.
2274:	7.	3.	7.	4.	5.	1.	2.	4.	2.
2283:	3.	5.	6.	4.	4.	2.	4.	4.	1.
2292:	8.	4.	5.	3.	6.	4.	2.	1.	4.
2301:	6.	7.	2.	2.	6.	4.	8.	2.	3.
2310:	0.	6.	3.	5.	4.	3.	5.	4.	6.
2319:	3.	5.	7.	2.	3.	3.	0.	4.	3.
2328:	1.	2.	8.	8.	12.	4.	5.	5.	7.
2337:	4.	2.	8.	1.	3.	7.	5.	3.	5.
2346:	7.	1.	0.	4.	4.	6.	2.	5.	3.
2355:	4.	3.	3.	3.	6.	0.	1.	10.	6.
2364:	2.	5.	2.	2.	2.	4.	1.	2.	3.

% ANTIMONY 1.1421

% ARSENIC 0.0092

FEDERAL BUREAU OF INVESTIGATION WASHINGTON DC

LEAD ANALYSIS

10-MAY-83 09:00:55

K10E

30427060 KB

SAMPLE WEIGHT: (UG) 12597.00

ACTIVATION: 09-MAY-83 09:49:00

NES 10 MIN RT4

ACQUIRE DATE: 10-MAY-83 00:11:10

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1007. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: 0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	190.	608.	0.0120	0.0006	5.3
%-ANTIMONY	564.1	110.	28641.	1.1391	0.0085	0.7
%-ARSENIC	559.3	153.	333.	0.0089	0.0007	7.7

	CU	SB	AS
CNTS/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2043	2236	2236
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2243 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1980:	7.	19.	18.	14.	16.	16.	8.	23.	15.
1997:	24.	14.	15.	9.	18.	9.	17.	15.	15.
2006:	12.	11.	13.	20.	11.	14.	20.	16.	15.
2015:	16.	16.	9.	21.	9.	13.	13.	16.	11.
2024:	12.	17.	15.	14.	15.	21.	17.	21.	17.
2033:	12.	18.	19.	33.	39.	35.	62.	62.	76.
2042:	75.	83.	78.	66.	70.	62.	50.	40.	29.
2051:	29.	23.	14.	15.	19.	17.	15.	16.	21.
2060:	13.	11.	8.	23.	7.	21.	19.	17.	18.
2069:	9.	21.	20.	12.	14.	11.	13.	19.	16.
2078:	12.	11.	12.	13.	10.	12.	9.	10.	6.
2087:	14.	11.	12.	12.	13.	10.	23.	12.	11.
2096:	12.	15.	16.	18.	10.	13.	19.	12.	12.
2105:	14.	18.	11.	7.	22.	9.	12.	11.	11.

% COPPER

0.0120

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 09:01:23

KLOB

30427060 RE

SAMPLE WEIGHT: (UG) 12597.00
ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
ACQUIRE DATE: 10-MAY-83 00:11:10 GEM 13
PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
ELAPSED REAL TIME: 1007. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

2130:	14.	9.	8.	10.	13.	16.	9.	17.	15.
2139:	12.	15.	8.	7.	9.	8.	12.	24.	23.
2148:	8.	15.	15.	12.	13.	11.	10.	15.	9.
2157:	10.	12.	15.	16.	12.	16.	10.	18.	13.
2166:	12.	8.	11.	14.	10.	7.	8.	11.	11.
2175:	14.	9.	10.	13.	11.	15.	10.	11.	17.
2184:	21.	16.	10.	12.	9.	9.	9.	11.	15.
2193:	14.	8.	13.	12.	7.	15.	20.	13.	14.
2202:	18.	9.	10.	18.	13.	16.	14.	17.	18.
2211:	11.	16.	9.	14.	20.	5.	16.	16.	14.
2220:	13.	17.	13.	22.	15.	12.	13.	17.	13.
2229:	24.	21.	31.	36.	58.	60.	85.	100.	106.
2238:	87.	59.	50.	42.	32.	28.	32.	39.	40.
2247:	50.	72.	117.	261.	563.	1129.	2091.	3365.	4478.
2256:	4990.	4539.	3362.	2184.	1133.	487.	169.	49.	23.
2265:	9.	4.	9.	11.	7.	3.	5.	3.	3.
2274:	5.	2.	3.	0.	7.	2.	3.	6.	5.
2283:	4.	4.	5.	3.	6.	7.	4.	1.	4.
2292:	6.	3.	3.	0.	1.	4.	4.	3.	3.
2301:	1.	4.	4.	1.	2.	4.	3.	1.	1.
2310:	3.	4.	6.	2.	2.	6.	3.	5.	4.
2319:	1.	3.	4.	2.	9.	3.	4.	0.	2.
2328:	0.	7.	6.	9.	11.	6.	10.	10.	4.
2337:	2.	5.	3.	5.	2.	1.	5.	7.	5.
2346:	2.	4.	2.	5.	2.	4.	6.	5.	4.
2355:	3.	2.	2.	2.	5.	3.	2.	1.	0.
2364:	5.	3.	2.	4.	3.	5.	3.	6.	3.

% ANTIMONY 1.1391

% ARSENIC 0.0087

FEDERAL BUREAU OF INVESTIGATION WASHINGTON, DC LEAD ANALYSIS

10-MAY-83 09:02:30

KT01:

3042/060 KB

SAMPLE WEIGHT: (UG) 12471.00
 ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
 ACQUIRE DATE: 10-MAY-83 00:28:09 GEM 13
 PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
 ELAPSED REAL TIME: 1007. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
Z-COPPER	511.0	186.	606.	0.0123	0.0007	5.3
Z-ANTIMONY	564.1	120.	28719.	1.1572	0.0086	0.7
Z-ARSENIC	559.3	144.	333.	0.0090	0.0007	7.6
CNTS/UG/MIN AT RD			CU 52.8		SE 14.0	AS 26.16
CENTROID CHANNEL			2043		2256	2236
HALF-LIFE			12.8 H		2.7 D	26.3 H
BACKGROUND SPACING			50 L&R		80 L&R	30 L CH 2243 R
BACKGROUND CHANNELS			22 L&R		22 L&R	11 L 1 R
PEAK CHANNELS			13		13	5

1988:	16.	14.	16.	18.	13.	14.	17.	19.	18.
1997:	13.	16.	12.	13.	12.	12.	17.	20.	19.
2006:	18.	15.	15.	19.	20.	5.	19.	14.	15.
2015:	16.	19.	16.	9.	16.	9.	17.	12.	11.
2024:	10.	15.	10.	18.	13.	19.	27.	21.	13.
2033:	23.	16.	19.	31.	41.	48.	53.	65.	66.
2042:	58.	91.	67.	72.	60.	65.	58.	48.	33.
2051:	28.	31.	25.	16.	28.	11.	17.	18.	9.
2060:	20.	14.	20.	15.	12.	15.	13.	11.	15.
2069:	14.	12.	13.	10.	9.	9.	13.	12.	13.
2078:	13.	16.	14.	14.	11.	11.	16.	13.	14.
2087:	13.	8.	15.	16.	13.	15.	16.	12.	12.
2096:	9.	9.	16.	11.	15.	9.	15.	10.	12.
2105:	21.	10.	11.	4.	7.	7.	15.	8.	12.

Z COPPER

0.0123

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS 10-MAY-83 09:02:08

K100

30427060 RB

SAMPLE WEIGHT: (UG) 12471.00
 ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN K14
 ACQUIRE DATE: 10-MAY-83 00:28:09 GEM 13
 PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
 ELAPSED REAL TIME: 1007. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

2130:	11.	17.	16.	11.	12.	15.	19.	15.	11.
2139:	11.	14.	13.	11.	13.	8.	7.	13.	9.
2148:	6.	8.	8.	15.	10.	10.	13.	10.	9.
2157:	14.	15.	7.	10.	20.	12.	8.	9.	7.
2166:	12.	14.	12.	9.	16.	15.	10.	20.	14.
2175:	16.	15.	13.	12.	17.	11.	5.	10.	18.
2184:	7.	5.	6.	22.	11.	10.	14.	12.	11.
2193:	11.	9.	6.	14.	9.	13.	12.	7.	11.
2202:	15.	14.	14.	15.	16.	16.	16.	10.	8.
2211:	9.	11.	12.	15.	15.	13.	14.	12.	12.
2220:	18.	11.	14.	15.	18.	19.	15.	24.	15.
2229:	17.	17.	22.	33.	65.	70.	76.	110.	93.
2238:	89.	65.	51.	38.	31.	29.	45.	49.	48.
2247:	56.	80.	133.	241.	616.	1701.	2113.	3423.	4540.
2256:	4975.	4587.	3378.	2124.	1090.	434.	175.	51.	18.
2265:	6.	4.	6.	3.	8.	6.	4.	5.	3.
2274:	6.	2.	4.	2.	7.	6.	4.	5.	2.
2283:	9.	5.	4.	3.	4.	4.	4.	5.	2.
2292:	3.	4.	1.	2.	0.	8.	8.	4.	5.
2301:	2.	3.	3.	2.	4.	4.	4.	4.	4.
2310:	1.	1.	6.	5.	2.	4.	3.	6.	3.
2319:	4.	6.	2.	6.	2.	2.	4.	0.	10.
2328:	1.	5.	5.	8.	10.	10.	7.	8.	6.
2337:	7.	4.	2.	3.	3.	6.	4.	4.	4.
2346:	1.	2.	7.	2.	0.	4.	1.	2.	7.
2355:	4.	3.	4.	2.	2.	3.	1.	3.	2.
2364:	2.	2.	2.	2.	3.	4.	3.	5.	4.

% ANTIMONY 1.1572

% ARSENIC 0.0090

10 MAY -83 09:04:05

34-427 USC 1452

UI F SET: -0.0226080 KLV

% BUFFER 0.008%

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

10-MAY-83 09:04:34

K11A

30427060 RE

SAMPLE WEIGHT: (UG) 12605.00

ACTIVATION: 09-MAY-83 09:49:00

NES 10 MIN R14

ACQUIRE DATE: 10-MAY-83 00:45:09

GEM 13

PRESHOT LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1008. SEC

KEV/CHN: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	14.	14.	20.	18.	17.	15.	13.	8.	13.
2139:	15.	20.	6.	15.	10.	9.	14.	9.	15.
2148:	19.	18.	17.	10.	15.	14.	7.	11.	14.
2157:	12.	10.	14.	13.	17.	13.	12.	11.	13.
2166:	9.	14.	12.	13.	14.	17.	13.	9.	10.
2175:	17.	22.	14.	14.	8.	19.	13.	17.	19.
2184:	12.	19.	9.	14.	12.	14.	14.	12.	16.
2193:	14.	16.	17.	17.	18.	12.	19.	16.	19.
2202:	18.	20.	11.	13.	15.	11.	11.	17.	12.
2211:	16.	23.	20.	10.	16.	29.	17.	12.	22.
2220:	14.	19.	12.	18.	14.	15.	22.	17.	13.
2229:	18.	25.	32.	28.	54.	69.	94.	95.	85.
2238:	81.	69.	37.	37.	37.	51.	39.	48.	48.
2247:	63.	86.	158.	290.	664.	1432.	2564.	4016.	5190.
2256:	5856.	5463.	4112.	2550.	1343.	594.	191.	71.	26.
2265:	12.	3.	1.	4.	6.	2.	2.	2.	4.
2274:	7.	4.	7.	2.	4.	4.	4.	4.	4.
2283:	6.	7.	8.	7.	5.	2.	4.	9.	7.
2292:	6.	4.	7.	1.	5.	3.	8.	3.	1.
2301:	5.	6.	6.	2.	6.	3.	5.	3.	2.
2310:	3.	5.	0.	2.	6.	1.	5.	4.	4.
2319:	6.	3.	3.	5.	1.	6.	4.	4.	5.
2328:	4.	6.	6.	8.	8.	5.	7.	11.	1.
2337:	3.	1.	3.	4.	1.	5.	4.	2.	3.
2346:	4.	5.	4.	4.	8.	6.	4.	3.	8.
2355:	5.	2.	5.	2.	10.	7.	5.	6.	6.
2364:	3.	2.	4.	3.	4.	4.	3.	2.	2.

Z ANTIMONY

1.3652

Z ARSENIC

0.0079

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 09:05:41

KT 1B

3042/060 KB

SAMPLE WLIGHT: (UG) 12684.00
ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
ACQUIRE DATE: 10-MAY-83 01:02:08 GEM 13
PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
ELAPSED REAL TIME: 1009. SEC KEV/CHN1: 0.2500463
ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

FILMENT	PEAK ENERGY	BRGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
Z-COPPER	511.0	200.	526.	0.0108	0.0006	5.9
Z-ANTIMONY	564.1	126.	34764.	1.3056	0.0098	0.7
Z-ARSENIC	559.3	187.	301.	0.0081	0.0007	8.7
			CU	SE	AS	
CNTS/UG/MIN AT RD			52.8	14.0	26.16	
CENTROID CHANNEL			2044	2256	2236	
HALF-THICK			12.8 H	2.7 D	26.3 H	
BACKGROUND SPACING			50 L&R	80 L&R	30 L	CH 2244 R
BACKGROUND CHANNELS			22 L&R	22 L&R	11 L	1 R
PEAK CHANNELS			13	13	5	

1988:	21.	15.	15.	18.	24.	16.	20.	17.	14.
1997:	21.	19.	10.	22.	16.	15.	11.	20.	13.
2006:	17.	23.	10.	21.	16.	24.	19.	12.	19.
2015:	24.	17.	16.	19.	14.	20.	18.	19.	19.
2024:	19.	15.	21.	17.	17.	19.	14.	21.	23.
2033:	25.	13.	24.	27.	32.	37.	46.	58.	60.
2042:	59.	83.	54.	85.	77.	59.	43.	29.	36.
2051:	29.	24.	29.	17.	13.	18.	13.	18.	18.
2060:	11.	16.	19.	23.	10.	27.	23.	10.	17.
2069:	14.	16.	16.	16.	14.	13.	15.	20.	21.
2078:	15.	17.	8.	12.	20.	17.	11.	9.	21.
2087:	12.	15.	20.	13.	14.	18.	15.	13.	11.
2096:	11.	18.	10.	7.	10.	16.	25.	15.	11.
2105:	16.	14.	21.	15.	11.	9.	15.	16.	12.

% COPPER

0.0108

FEDERAL BUREAU OF INVESTIGATION WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 09:06:09

K11H

30427060 RB

SAMPLE WEIGHT: (UG) 12684.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 10-MAY-83 01:02:08

GLM 13

PRESFT LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1009. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	11.	18.	10.	14.	14.	8.	14.	8.	16.
2139:	9.	18.	23.	18.	16.	13.	17.	12.	12.
2148:	26.	10.	14.	19.	13.	13.	10.	14.	9.
2157:	17.	16.	21.	13.	12.	18.	11.	16.	14.
2166:	13.	12.	15.	17.	12.	16.	9.	12.	13.
2175:	19.	16.	8.	12.	18.	17.	9.	12.	18.
2184:	10.	16.	13.	9.	9.	10.	15.	14.	11.
2193:	20.	16.	16.	12.	21.	20.	10.	20.	20.
2202:	12.	25.	10.	22.	19.	17.	10.	6.	19.
2211:	27.	16.	17.	13.	10.	18.	22.	16.	15.
2220:	16.	24.	11.	18.	19.	22.	25.	17.	20.
2229:	17.	20.	26.	36.	61.	86.	92.	105.	81.
2238:	84.	55.	60.	43.	42.	43.	42.	49.	55.
2247:	73.	113.	171.	329.	665.	1438.	2652.	4187.	5460.
2256:	1908.	5425.	4121.	2519.	1389.	598.	205.	63.	16.
2265:	15.	8.	6.	5.	3.	5.	6.	6.	9.
2274:	2.	1.	4.	5.	3.	1.	6.	8.	4.
2283:	4.	4.	3.	2.	6.	4.	6.	1.	6.
2292:	7.	2.	3.	3.	3.	8.	7.	7.	3.
2301:	4.	6.	2.	3.	6.	1.	3.	3.	8.
2310:	3.	5.	2.	8.	4.	4.	7.	0.	5.
2319:	6.	3.	5.	2.	4.	3.	7.	2.	6.
2328:	9.	6.	10.	10.	7.	11.	3.	10.	4.
2337:	5.	4.	4.	3.	3.	5.	5.	4.	5.
2346:	3.	3.	3.	3.	0.	3.	0.	4.	2.
2355:	3.	2.	1.	3.	1.	5.	2.	2.	4.
2364:	3.	4.	1.	5.	1.	2.	4.	5.	1.

% ANTIMONY

1.3856

% ARSENIC

0.0081

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 09:07:17

K110: 30427060 KB

SAMPLE WEIGHT: (UG) 12946.00
ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
ACQUIRE DATE: 10-MAY-83 01:19:08 GEM 13
PRESLT LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
ELAPSED REAL TIME: 1008. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
Z-COPPER	511.0	228.	476.	0.0097	0.0006	6.5
Z-ANTIMONY	564.1	111.	35062.	1.3733	0.0097	0.7
Z-ARSENIC	559.3	168.	338.	0.0091	0.0007	7.8
			CU	SE	AS	
CNTS/UG/MIN AT RD			57.8	14.0	26.16	
CENTROID CHANNEL			2043	2256	2236	
HALF-LIFE			12.8 H	2.7 D	26.3 H	
BACKGROUND SPACING			50 L&K	80 L&K	30 L	CH 2242 R
BACKGROUND CHANNELS			22 L&K	22 L&K	11 L	1 R
PEAK CHANNELS			13	13	5	

1988:	25.	18.	16.	17.	21.	15.	13.	25.	18.
1997:	22.	22.	25.	18.	18.	17.	12.	15.	18.
2006:	18.	19.	15.	17.	16.	15.	26.	16.	15.
2015:	16.	19.	16.	18.	18.	16.	17.	16.	24.
2024:	18.	19.	16.	13.	21.	15.	11.	21.	20.
2033:	20.	33.	27.	27.	32.	38.	42.	49.	68.
2042:	65.	65.	73.	73.	48.	59.	42.	49.	31.
2051:	29.	24.	15.	20.	24.	18.	21.	8.	19.
2060:	27.	10.	16.	14.	16.	13.	25.	18.	14.
2069:	13.	20.	15.	12.	17.	16.	15.	14.	15.
2078:	17.	14.	12.	18.	14.	16.	20.	13.	15.
2087:	18.	16.	11.	14.	19.	15.	20.	17.	16.
2096:	16.	16.	13.	24.	13.	21.	12.	17.	13.
2105:	15.	17.	12.	16.	16.	15.	15.	17.	16.

% COPPER 0.0097

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
 10-MAY-83 09:07:40

KILL

3042/060 RE

SAMPLE WEIGHT: (UG) 12946.00
 ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RI4
 ACQUIRE DATE: 10-MAY-83 01:19:08 GEM 13
 PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
 ELAPSED REAL TIME: 1008. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

2130:	17.	18.	10.	15.	18.	16.	7.	15.	20.
2139:	13.	26.	14.	12.	18.	15.	17.	14.	16.
2148:	14.	8.	13.	17.	15.	13.	11.	14.	11.
2157:	20.	16.	12.	8.	18.	9.	14.	15.	14.
2166:	9.	11.	18.	6.	14.	8.	19.	10.	7.
2175:	7.	14.	15.	11.	17.	9.	12.	12.	22.
2184:	13.	18.	16.	24.	15.	10.	15.	19.	20.
2193:	17.	18.	16.	10.	8.	14.	9.	12.	16.
2202:	23.	19.	15.	8.	15.	11.	11.	15.	14.
2211:	21.	18.	22.	12.	22.	13.	20.	16.	15.
2220:	19.	19.	9.	14.	14.	23.	23.	27.	19.
2229:	20.	39.	38.	25.	57.	78.	101.	104.	109.
2238:	87.	66.	51.	41.	41.	52.	44.	55.	52.
2247:	62.	96.	135.	297.	682.	1427.	2751.	4261.	5520.
2256:	5849.	5552.	4079.	2630.	1315.	616.	193.	65.	24.
2265:	8.	11.	3.	4.	4.	4.	5.	6.	2.
2274:	8.	2.	4.	3.	4.	3.	1.	3.	2.
2283:	4.	6.	2.	5.	3.	5.	5.	2.	3.
2292:	7.	7.	3.	4.	2.	5.	4.	8.	3.
2301:	0.	4.	3.	5.	6.	2.	3.	6.	4.
2310:	3.	8.	7.	4.	3.	4.	4.	7.	4.
2319:	1.	4.	4.	7.	3.	1.	4.	9.	3.
2328:	2.	6.	8.	14.	4.	5.	4.	7.	6.
2337:	2.	4.	3.	5.	4.	2.	6.	6.	4.
2346:	5.	4.	4.	1.	4.	8.	4.	6.	4.
2355:	2.	3.	4.	9.	3.	6.	6.	6.	2.
2364:	7.	3.	7.	4.	3.	3.	5.	5.	2.

% ANTIMONY 1.3733

% ARSENIC 0.0091

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

10-MAY-83 09:08:52

K12A

30427060 KB

SAMPLE WLIGHT: (UG) 12894.00
 ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN K14
 ACQUIRE DATE: 10-MAY-83 01:36:08 GEM 13
 PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
 ELAPSED REAL TIME: 1007. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	184.	574.	0.0120	0.0007	5.5
%-ANTIMONY	564.1	108.	29111.	1.1403	0.0085	0.7
%-ARSENIC	559.3	143.	331.	0.0089	0.0007	7.6

	CU	SD	AS
CNTS/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2045	2256	2236
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&K	80 L&K	30 L CH 2244 R
BACKGROUND CHANNELS	22 L&K	22 L&K	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	14.	17.	18.	17.	13.	17.	13.	10.	12.
1997:	15.	18.	14.	13.	18.	12.	15.	10.	16.
2006:	25.	12.	22.	22.	13.	17.	17.	31.	17.
2015:	11.	9.	24.	15.	18.	20.	9.	16.	16.
2024:	12.	14.	15.	15.	20.	11.	9.	14.	18.
2033:	12.	14.	23.	24.	27.	37.	48.	51.	56.
2042:	60.	74.	74.	83.	84.	65.	44.	43.	33.
2051:	43.	27.	23.	17.	19.	14.	16.	16.	9.
2060:	15.	15.	12.	14.	21.	16.	14.	16.	9.
2069:	13.	18.	13.	16.	15.	8.	11.	13.	12.
2078:	21.	13.	9.	18.	8.	16.	11.	18.	10.
2087:	12.	10.	18.	15.	12.	12.	13.	19.	9.
2096:	15.	12.	12.	23.	10.	13.	9.	19.	17.
2105:	14.	22.	10.	14.	8.	8.	9.	18.	11.

% COPPER 0.0120

LEAD ANALYSIS

10-MAY-83 09:09:20

K12A

30427060 KB

SAMPLE WEIGHT: (UG) 12894.00

ACTIVATION: 09-MAY-83 09:49:00

NES 10 MIN RT4

ACQUIRE DATE: 10-MAY-83 01:36:00

GEM 13

PRESHOT LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1007. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	12.	8.	20.	22.	11.	14.	17.	12.	10.
2139:	8.	14.	6.	7.	11.	9.	7.	17.	9.
2148:	12.	9.	12.	15.	7.	10.	16.	15.	12.
2157:	9.	12.	7.	12.	14.	13.	10.	16.	5.
2166:	9.	14.	17.	7.	6.	10.	13.	14.	10.
2175:	15.	15.	13.	9.	7.	10.	12.	13.	16.
2184:	10.	8.	16.	18.	12.	14.	11.	10.	10.
2193:	11.	17.	9.	11.	9.	14.	10.	10.	7.
2202:	14.	12.	18.	12.	14.	15.	13.	7.	16.
2211:	15.	16.	12.	9.	11.	17.	18.	14.	11.
2220:	14.	13.	15.	15.	12.	20.	11.	17.	16.
2229:	12.	21.	25.	35.	53.	65.	106.	100.	96.
2238:	71.	49.	56.	37.	38.	35.	30.	39.	41.
2247:	67.	72.	130.	270.	612.	1190.	2150.	3474.	4563.
2256:	4977.	4560.	3388.	2227.	1117.	510.	181.	69.	19.
2265:	7.	6.	5.	6.	2.	1.	6.	2.	4.
2274:	3.	2.	5.	2.	6.	5.	2.	5.	5.
2283:	2.	1.	4.	2.	4.	6.	2.	2.	4.
2292:	4.	1.	3.	3.	3.	7.	3.	9.	2.
2301:	7.	5.	8.	6.	1.	4.	5.	1.	5.
2310:	4.	4.	4.	4.	3.	2.	2.	5.	5.
2319:	3.	4.	4.	2.	4.	5.	2.	4.	2.
2328:	5.	8.	10.	6.	11.	14.	6.	3.	2.
2337:	3.	3.	3.	2.	1.	1.	2.	3.	8.
2346:	2.	2.	3.	4.	1.	2.	4.	2.	2.
2355:	5.	1.	2.	8.	3.	1.	2.	4.	1.
2364:	4.	0.	2.	6.	1.	3.	4.	3.	4.

% ANTIMONY

1.1483

% ARSENIC

0.0087

PHILADELPHIA LABORATORY WASHINGTON DC

LEAD ANALYSIS

10-MAY-83 09:10:20

K12E

30427060 RE

SAMPLE WEIGHT: (UG) 13009.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 10-MAY-83 01:53:07

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1008. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
Z-COPPER	511.0	204.	562.	0.0118	0.0007	5.7
Z-ANTIMONY	564.1	99.	29233.	1.1463	0.0085	0.7
Z-ARSENIC	559.3	138.	402.	0.0109	0.0007	6.6
			CU	SE	AS	
CNTS/UC/MIN AT RD			52.8	14.0	26.16	
CLINTROID CHANNEL			2043	2256	2236	
HALF-LIFE			12.8 H	2.7 D	26.3 H	
BACKGROUND SPACING			50 L&R	80 L&R	30 L	CH 2243 R
BACKGROUND CHANNELS			22 L&R	22 L&R	11 L	1 R
PEAK CHANNELS			13	13	5	

1988:	22.	14.	14.	23.	21.	18.	22.	14.	11.
1997:	8.	19.	12.	19.	10.	16.	19.	20.	17.
2006:	14.	23.	20.	13.	12.	13.	20.	19.	10.
2015:	13.	15.	10.	7.	18.	11.	13.	10.	15.
2024:	4.	15.	18.	11.	18.	17.	17.	9.	20.
2033:	18.	27.	20.	31.	32.	34.	46.	55.	77.
2042:	80.	74.	93.	59.	69.	63.	44.	40.	27.
2051:	24.	19.	22.	23.	19.	13.	20.	10.	15.
2060:	13.	15.	17.	11.	13.	12.	14.	14.	16.
2069:	16.	14.	15.	22.	13.	22.	13.	14.	15.
2078:	16.	21.	17.	7.	5.	17.	12.	13.	14.
2087:	12.	21.	15.	19.	8.	6.	12.	17.	14.
2096:	13.	17.	17.	10.	11.	5.	14.	12.	17.
2105:	12.	15.	14.	10.	12.	14.	5.	12.	20.

% COPPER

0.0118

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
 10-MAY-83 09:10:56

K12B

30427060 RE

SAMPLE WEIGHT: (UG) 13009.00
 ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
 ACQUIRE DATE: 10-MAY-83 01:53:07 GEM 13
 PRESFT LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
 ELAPSED REAL TIME: 1008. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

2130:	12.	19.	6.	16.	14.	14.	14.	16.	7.
2139:	14.	8.	9.	9.	21.	13.	14.	8.	8.
2148:	11.	10.	14.	13.	4.	15.	16.	16.	9.
2157:	12.	13.	14.	12.	8.	15.	14.	13.	16.
2166:	12.	11.	22.	15.	14.	11.	13.	10.	11.
2175:	6.	13.	12.	11.	3.	8.	16.	19.	6.
2184:	15.	4.	11.	15.	18.	17.	10.	13.	8.
2193:	13.	11.	12.	9.	18.	11.	9.	13.	17.
2202:	11.	7.	14.	13.	17.	11.	8.	9.	19.
2211:	12.	13.	18.	18.	15.	13.	22.	11.	15.
2220:	7.	16.	14.	16.	21.	18.	12.	22.	17.
2229:	14.	14.	22.	36.	47.	71.	123.	116.	106.
2238:	85.	60.	45.	44.	34.	27.	28.	39.	54.
2247:	48.	81.	147.	272.	575.	1248.	2206.	3543.	4674.
2256:	5006.	4485.	3460.	2124.	1068.	474.	197.	56.	20.
2265:	5.	4.	6.	2.	7.	3.	3.	6.	6.
2274:	4.	2.	4.	1.	5.	5.	7.	5.	2.
2283:	6.	2.	4.	3.	6.	5.	5.	5.	3.
2292:	4.	2.	4.	1.	3.	2.	4.	2.	3.
2301:	7.	3.	3.	4.	3.	5.	2.	2.	3.
2310:	3.	5.	4.	6.	3.	0.	3.	3.	7.
2319:	3.	5.	4.	1.	7.	4.	2.	4.	3.
2328:	4.	6.	8.	8.	6.	11.	4.	5.	3.
2337:	7.	3.	2.	4.	6.	2.	4.	3.	3.
2346:	4.	2.	1.	5.	5.	4.	2.	3.	3.
2355:	4.	2.	5.	4.	5.	4.	2.	2.	7.
2364:	4.	2.	1.	4.	3.	1.	6.	2.	1.

% ANTIMONY 1.1463

% ARSENIC 0.0109

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

10-MAY-83 09:12:03

K12C

3042/060 RB

SAMPLE WEIGHT: (UG) 12385.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 10-MAY-83 02:10:07

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1007. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

FLI MENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	167.	594.	0.0133	0.0007	5.3
%-ANTIMONY	564.1	109.	28023.	1.1577	0.0087	0.8
%-ARSENIC	559.3	170.	351.	0.0100	0.0007	7.0
			CU	SB	AS	
CNTS/UG/MIN AT RD			52.8	14.0	26.16	
CENTROID CHANNEL			2043	2256	2236	
HALF-LIFE			12.8 H	2.7 D	26.3 H	
BACKGROUND SPACING			50 L&R	80 L&R	30 L	CH 2244 R
BACKGROUND CHANNELS			22 L&R	22 L&R	11 L	1 R
PEAK CHANNELS			13	13	5	

1980:	15.	12.	9.	15.	13.	9.	16.	15.	18.
1997:	19.	18.	11.	15.	18.	9.	11.	18.	9.
2006:	16.	24.	10.	14.	10.	14.	15.	14.	11.
2015:	13.	15.	15.	19.	20.	14.	21.	18.	12.
2024:	13.	13.	17.	10.	11.	17.	10.	18.	21.
2033:	24.	19.	27.	29.	33.	37.	42.	57.	65.
2042:	90.	76.	71.	69.	64.	69.	39.	49.	30.
2051:	21.	18.	21.	18.	19.	9.	13.	13.	17.
2060:	18.	12.	13.	9.	14.	8.	20.	7.	17.
2069:	7.	10.	16.	12.	11.	13.	16.	10.	14.
2078:	11.	12.	13.	11.	12.	14.	8.	10.	8.
2087:	7.	12.	12.	16.	7.	9.	7.	11.	12.
2096:	13.	13.	12.	7.	5.	17.	15.	15.	14.
2105:	14.	10.	12.	10.	13.	15.	8.	11.	6.

% COPPER

0.0133

LEAD ANALYSIS

10-MAY-83 09:12:32

K120

30427060 RE

SAMPLE WEIGHT: (UG) 12385.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 10-MAY 83 02:10:07

GEM 13

PRESHOT LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1007. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	20.	13.	17.	15.	17.	17.	12.	16.	13.
2139:	9.	13.	10.	16.	14.	17.	8.	12.	11.
2148:	5.	13.	10.	18.	8.	5.	9.	13.	10.
2157:	12.	8.	12.	9.	11.	10.	11.	18.	9.
2166:	12.	14.	19.	13.	19.	9.	10.	13.	11.
2175:	16.	13.	11.	8.	9.	19.	8.	11.	17.
2184:	17.	13.	10.	12.	8.	11.	12.	16.	11.
2193:	16.	16.	12.	11.	14.	14.	12.	11.	9.
2202:	10.	11.	11.	11.	11.	14.	13.	11.	10.
2211:	9.	20.	11.	8.	11.	20.	13.	18.	12.
2220:	18.	17.	13.	19.	9.	19.	12.	10.	21.
2229:	19.	24.	30.	32.	55.	76.	111.	100.	85.
2238:	86.	52.	45.	37.	39.	43.	32.	44.	48.
2247:	69.	83.	155.	332.	685.	1331.	2401.	3688.	4605.
2256:	4736.	4150.	3071.	1708.	896.	374.	155.	40.	14.
2265:	11.	5.	1.	7.	10.	1.	5.	6.	5.
2274:	2.	3.	6.	5.	0.	3.	2.	10.	5.
2283:	0.	6.	4.	1.	5.	3.	3.	3.	3.
2292:	3.	2.	4.	0.	8.	7.	4.	1.	2.
2301:	2.	1.	5.	6.	1.	4.	4.	3.	2.
2310:	3.	3.	0.	4.	4.	1.	4.	2.	4.
2319:	2.	9.	7.	4.	4.	5.	4.	4.	2.
2328:	2.	7.	7.	6.	11.	13.	5.	4.	1.
2337:	3.	6.	3.	4.	2.	1.	0.	5.	5.
2346:	0.	0.	2.	2.	4.	4.	1.	2.	3.
2355:	4.	2.	2.	3.	3.	1.	1.	3.	6.
2364:	5.	0.	3.	8.	2.	5.	7.	1.	8.

Z ANTIMONY

1.1577

Z ARSENIC

0.0100

LEAD ANALYSIS

10-MAY-83 09:13:39

KLSA

30427060 KB

SAMPLE WEIGHT: (UG) 13122.00

ACTIVATION: 09-MAY-83 09:49:00

NEG 10 MIN RI4

ACQUIRE DATE: 10-MAY-83 02:27:07

GEM 13

PRESFT LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1008. SEC

KEV/CHNL: 0.2500463

FALSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	PKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
% COPPER	511.0	723.	484.	0.0104	0.0007	6.4
%-ANTIMONY	564.1	131.	34792.	1.3607	0.0096	0.7
%-ARSENIC	559.3	165.	320.	0.0087	0.0007	8.0
			CU	SE	AS	
CN15/UG/MIN AT RD			52.8	14.0	26.16	
CENTROID CHANNEL			2043	2255	2236	
HALF LIFE			12.8 H	2.7 D	26.3 H	
BACKGROUND SPACING			50 L&R	80 L&R	30 L CH 2242 R	
BACKGROUND CHANNELS			72 L&R	22 L&R	11 L 1 R	
PEAK CHANNELS			13	13	5	

1988:	26.	17.	15.	13.	18.	19.	12.	23.	21.
1997:	16.	22.	25.	19.	16.	24.	12.	18.	10.
2006:	16.	22.	12.	14.	15.	24.	78.	22.	15.
2015:	24.	13.	17.	26.	18.	22.	16.	13.	11.
2024:	15.	20.	15.	12.	16.	16.	21.	16.	71.
2033:	25.	16.	23.	29.	35.	37.	39.	67.	69.
2042:	71.	61.	77.	70.	56.	59.	35.	31.	26.
2051:	22.	32.	19.	11.	19.	17.	11.	16.	17.
2060:	12.	8.	14.	10.	7.	9.	23.	13.	19.
2069:	13.	16.	17.	20.	12.	16.	21.	18.	12.
2078:	19.	16.	22.	19.	10.	13.	10.	10.	18.
2087:	17.	15.	16.	18.	20.	17.	15.	16.	18.
2096:	12.	8.	21.	18.	26.	12.	15.	13.	20.
2105:	14.	14.	17.	20.	16.	13.	17.	16.	19.

% COPPER

0.0104

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 09:14:07

K13A

3042/060 KB

SAMPLE WEIGHT: (UG) 13122.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 10-MAY-83 02:27:07

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1008. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	9.	11.	16.	11.	13.	14.	16.	9.	15.
2139:	12.	16.	14.	14.	21.	13.	14.	8.	16.
2148:	20.	16.	13.	16.	14.	13.	10.	17.	21.
2157:	14.	10.	13.	11.	15.	12.	20.	14.	19.
2166:	16.	15.	12.	8.	16.	14.	15.	12.	13.
2175:	20.	15.	10.	18.	11.	23.	10.	17.	17.
2184:	13.	16.	22.	11.	19.	14.	10.	12.	4.
2193:	16.	16.	17.	16.	14.	16.	13.	10.	18.
2202:	16.	22.	13.	17.	10.	16.	14.	17.	13.
2211:	9.	17.	21.	15.	18.	12.	17.	14.	20.
2220:	21.	21.	21.	16.	21.	28.	15.	19.	25.
2229:	21.	23.	33.	46.	70.	75.	108.	97.	88.
2238:	82.	64.	51.	39.	37.	51.	47.	51.	58.
2247:	78.	132.	178.	449.	905.	1766.	3226.	4710.	5770.
2256:	5854.	5003.	3552.	2084.	993.	433.	144.	49.	18.
2265:	6.	7.	3.	6.	5.	2.	5.	3.	1.
2274:	4.	7.	3.	10.	10.	2.	7.	2.	5.
2283:	4.	5.	1.	6.	3.	5.	8.	4.	3.
2292:	2.	3.	9.	4.	2.	5.	5.	3.	4.
2301:	6.	7.	4.	4.	3.	4.	6.	6.	5.
2310:	3.	3.	2.	6.	7.	4.	3.	1.	1.
2319:	7.	6.	6.	3.	2.	3.	2.	2.	14.
2328:	3.	9.	7.	6.	7.	3.	5.	5.	1.
2337:	4.	3.	8.	6.	3.	4.	3.	2.	2.
2346:	2.	2.	8.	6.	4.	4.	2.	6.	2.
2355:	0.	2.	4.	2.	4.	6.	7.	3.	2.
2364:	2.	5.	5.	3.	5.	2.	5.	5.	4.

% ANTIMONY

1.3607

% ARSENIC

0.0087

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 09:15:14

RT 3E

30427060 RE

SAMPLE WLIGHT: (UG) 12639.00
ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
ACQUIRE DATE: 10-MAY-83 02:44:06 GEM 13
PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
ELAPSED REAL TIME: 1008. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
Z-COPPER	511.0	209.	447.	0.0101	0.0007	6.7
Z-ANTIMONY	564.1	117.	34025.	1.3857	0.0098	0.7
Z-ARSENIC	559.3	100.	322.	0.0092	0.0007	7.6

	CU	SB	AS
CNTS/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2044	2255	2236
HALF LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2241 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	19.	20.	18.	20.	13.	16.	16.	17.	18.
1997:	16.	21.	14.	14.	15.	13.	22.	19.	15.
2006:	6.	11.	13.	19.	16.	16.	22.	11.	17.
2015:	15.	21.	14.	21.	13.	19.	10.	18.	10.
2024:	14.	16.	21.	16.	18.	21.	12.	18.	20.
2033:	18.	24.	27.	25.	29.	42.	42.	47.	56.
2042:	73.	69.	75.	51.	45.	47.	42.	37.	30.
2051:	26.	21.	24.	14.	14.	14.	17.	16.	9.
2060:	16.	12.	8.	14.	13.	10.	11.	17.	15.
2069:	12.	10.	18.	16.	8.	7.	17.	12.	15.
2078:	14.	15.	12.	10.	25.	17.	11.	16.	12.
2087:	19.	17.	17.	20.	8.	12.	10.	18.	16.
2096:	21.	16.	8.	10.	18.	13.	12.	13.	16.
2105:	11.	17.	14.	12.	7.	20.	12.	14.	9.

% COPPER

0.0101

FEDERAL BUREAU OF INVESTIGATION WASHINGTON DC
LEAD ANALYSIS
 10-MAY-83 09:15:42

K13E:

30427060 KB

SAMPLE WEIGHT: (UG) 12639.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 10-MAY-83 02:44:06

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1000. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	9.	16.	16.	11.	15.	11.	18.	21.	11.
2139:	14.	14.	11.	17.	12.	11.	18.	9.	17.
2148:	16.	14.	12.	10.	10.	13.	12.	20.	18.
2157:	17.	8.	13.	15.	12.	19.	10.	12.	22.
2166:	16.	15.	18.	17.	16.	17.	14.	15.	14.
2175:	6.	0.	15.	13.	13.	10.	13.	17.	4.
2184:	15.	8.	15.	17.	15.	6.	8.	18.	12.
2193:	12.	12.	17.	10.	23.	10.	13.	20.	16.
2202:	14.	9.	12.	13.	9.	15.	9.	16.	6.
2211:	14.	12.	20.	17.	18.	16.	20.	19.	32.
2220:	17.	16.	23.	21.	19.	17.	20.	22.	13.
2229:	27.	22.	27.	44.	66.	88.	90.	86.	84.
2238:	82.	53.	49.	31.	40.	39.	49.	35.	58.
2247:	77.	107.	179.	477.	874.	1783.	3212.	4616.	5712.
2256:	5716.	4865.	3420.	1975.	945.	368.	106.	31.	13.
2265:	5.	6.	3.	2.	4.	7.	3.	2.	4.
2274:	1.	3.	5.	4.	2.	3.	4.	5.	5.
2283:	3.	4.	5.	3.	0.	2.	8.	4.	5.
2292:	5.	3.	2.	7.	2.	5.	3.	4.	7.
2301:	1.	1.	2.	5.	3.	6.	6.	4.	2.
2310:	6.	1.	4.	3.	2.	5.	2.	4.	4.
2319:	4.	3.	4.	8.	3.	6.	2.	4.	4.
2328:	6.	4.	4.	3.	10.	10.	9.	3.	3.
2337:	3.	6.	5.	1.	4.	8.	5.	5.	3.
2346:	4.	5.	4.	4.	5.	3.	4.	3.	3.
2355:	4.	4.	6.	2.	2.	4.	6.	9.	9.
2364:	5.	3.	0.	3.	3.	0.	1.	2.	2.

% ANTIMONY

1.3857

% ARSENIC

0.0092

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
 10-MAY-83 09:16:49

K130

30427060 RB

SAMPLE WEIGHT: (UG) 13438.00
 ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
 ACQUIRE DATE: 10-MAY-83 03:01:06 GEM 13
 PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
 ELAPSED REAL TIME: 1008. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	275.	459.	0.0099	0.0007	6.7
%-ANTIMONY	564.1	125.	35543.	1.3656	0.0096	0.7
%-ARSENIC	559.3	193.	327.	0.0088	0.0007	8.2
			CU	SE	AS	
CNIS/UG/MIN AT RD			52.0	14.0	26.16	
CLNTROID CHANNEL			2043	2235	2236	
HALF LIFE			12.8 H	2.7 D	26.3 H	
BACKGROUND SPACING			50 L&R	80 L&R	30 L	CH 2241 R
BACKGROUND CHANNELS			22 L&R	22 L&R	11 L	1 R
PEAK CHANNELS			13	13	5	

1980:	19.	21.	29.	12.	15.	19.	21.	18.	11.
1997:	22.	21.	17.	22.	21.	20.	17.	22.	22.
2006:	19.	19.	17.	17.	17.	25.	22.	20.	18.
2015:	23.	17.	19.	11.	27.	13.	17.	11.	13.
2024:	13.	18.	27.	17.	13.	13.	14.	18.	17.
2033:	27.	16.	25.	21.	39.	32.	44.	58.	68.
2042:	67.	69.	62.	73.	61.	49.	31.	31.	23.
2051:	23.	32.	20.	17.	14.	19.	18.	13.	11.
2060:	14.	11.	27.	16.	19.	13.	24.	13.	22.
2069:	11.	15.	16.	14.	11.	20.	8.	13.	16.
2078:	19.	17.	21.	25.	13.	15.	15.	15.	14.
2087:	16.	23.	14.	15.	12.	17.	16.	14.	14.
2096:	18.	13.	17.	11.	15.	15.	16.	17.	10.
2105:	12.	15.	16.	14.	10.	14.	13.	17.	17.

% COPPER 0.0099

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

10-MAY-83 09:17:17

R190:

3042/060 RB

SAMPLE WEIGHT: (UG) 13438.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 10-MAY-83 03:01:06

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1008. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	11.	12.	15.	21.	17.	14.	11.	9.	11.
2139:	20.	10.	16.	16.	15.	17.	16.	10.	17.
2148:	16.	6.	13.	16.	15.	19.	10.	19.	23.
2157:	13.	17.	15.	10.	19.	14.	6.	15.	21.
2166:	26.	14.	14.	12.	9.	11.	11.	10.	14.
2175:	20.	12.	21.	13.	29.	13.	10.	15.	18.
2184:	10.	9.	7.	10.	14.	18.	15.	14.	11.
2193:	16.	14.	13.	11.	12.	14.	18.	23.	20.
2202:	16.	18.	19.	18.	20.	21.	19.	10.	21.
2211:	11.	18.	19.	20.	15.	14.	23.	15.	16.
2220:	19.	16.	14.	24.	28.	17.	10.	23.	26.
2229:	14.	31.	29.	53.	71.	102.	93.	105.	86.
2238:	72.	44.	57.	35.	51.	36.	53.	55.	48.
2247:	76.	98.	214.	455.	993.	1957.	3322.	4826.	5934.
2256:	6008.	5100.	3458.	2052.	988.	361.	154.	38.	15.
2265:	7.	4.	3.	5.	4.	2.	6.	8.	2.
2274:	5.	10.	8.	1.	3.	4.	1.	7.	3.
2283:	2.	6.	6.	2.	4.	8.	1.	6.	1.
2292:	3.	4.	6.	5.	4.	4.	6.	4.	6.
2301:	3.	1.	5.	3.	4.	6.	5.	3.	5.
2310:	5.	2.	7.	3.	3.	5.	1.	5.	7.
2319:	4.	4.	7.	10.	7.	5.	2.	3.	4.
2328:	10.	7.	5.	7.	7.	7.	8.	4.	3.
2337:	4.	4.	3.	2.	7.	5.	9.	4.	3.
2346:	3.	2.	4.	2.	3.	4.	3.	6.	5.
2355:	5.	2.	0.	1.	5.	3.	7.	0.	4.
2364:	2.	3.	4.	5.	3.	7.	4.	4.	7.

% ANTIMONY

1.3656

% ARSENIC

0.0088

FLUOR-LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 09:18:24

K14A

30427060 RB

SAMPLE WEIGHT: (UG) 12590.00
ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
ACQUIRE DATE: 10-MAY-83 03:18:05 GEM 13
PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
ELAPSED REAL TIME: 1008. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	184.	437.	0.0102	0.0007	6.6
%-ANTIMONY	564.1	124.	32850.	1.3513	0.0097	0.7
%-ARSENIC	559.3	163.	307.	0.0089	0.0007	8.3

	CU	SB	AS
CNTS/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2043	2255	2236
HAFT LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2244 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PLAK CHANNELS	13	13	5

1988:	10.	32.	13.	15.	13.	13.	16.	28.	10.
1997:	18.	17.	25.	17.	14.	13.	22.	19.	15.
2006:	24.	11.	14.	13.	12.	23.	15.	20.	15.
2015:	24.	16.	13.	10.	18.	11.	19.	22.	18.
2024:	20.	22.	19.	13.	10.	12.	19.	25.	18.
2033:	17.	20.	22.	23.	25.	48.	34.	53.	46.
2042:	54.	66.	56.	62.	50.	52.	38.	37.	23.
2051:	23.	18.	24.	11.	21.	20.	14.	20.	16.
2060:	13.	14.	11.	11.	24.	16.	18.	8.	18.
2069:	11.	8.	21.	13.	15.	7.	15.	8.	12.
2078:	21.	12.	11.	21.	12.	14.	18.	16.	10.
2087:	11.	15.	9.	8.	16.	10.	14.	11.	14.
2096:	10.	12.	7.	13.	20.	9.	20.	17.	16.
2105:	10.	9.	10.	12.	11.	14.	9.	16.	11.

% COPPER

0.0102

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 09:18:52

K14A

30427060 RE

SAMPLE WEIGHT: (UG) 12590.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 10-MAY-83 03:18:00

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1008. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	13.	12.	9.	13.	10.	11.	12.	13.	12.
2139:	10.	10.	15.	17.	14.	14.	14.	9.	16.
2148:	14.	12.	16.	10.	17.	8.	14.	15.	13.
2157:	16.	15.	12.	11.	19.	19.	12.	17.	18.
2166:	10.	6.	15.	8.	12.	13.	14.	8.	15.
2175:	8.	12.	19.	13.	10.	8.	17.	14.	12.
2184:	12.	11.	20.	18.	17.	8.	15.	14.	12.
2193:	17.	14.	17.	12.	17.	10.	12.	9.	19.
2202:	18.	15.	12.	9.	11.	16.	17.	15.	20.
2211:	11.	16.	14.	14.	11.	12.	16.	11.	13.
2220:	12.	19.	20.	17.	13.	20.	25.	21.	27.
2229:	15.	25.	26.	54.	58.	78.	85.	88.	98.
2238:	68.	60.	51.	40.	35.	47.	29.	50.	51.
2247:	65.	98.	211.	430.	941.	1842.	3078.	4564.	5497.
2256:	5457.	4644.	3284.	1788.	908.	334.	114.	35.	10.
2265:	7.	6.	2.	3.	4.	5.	3.	10.	4.
2274:	6.	2.	5.	5.	2.	5.	3.	2.	3.
2283:	2.	4.	3.	3.	2.	5.	5.	3.	2.
2292:	5.	4.	3.	3.	5.	7.	1.	2.	5.
2301:	6.	5.	7.	3.	2.	1.	3.	6.	3.
2310:	2.	5.	2.	4.	2.	5.	1.	0.	4.
2319:	4.	5.	3.	3.	3.	3.	9.	2.	6.
2328:	9.	7.	3.	10.	10.	8.	12.	12.	3.
2337:	3.	8.	4.	4.	2.	2.	3.	2.	2.
2346:	7.	2.	6.	2.	5.	2.	5.	6.	3.
2355:	4.	2.	3.	3.	5.	2.	5.	3.	5.
2364:	5.	4.	5.	3.	1.	1.	4.	3.	5.

% ANTIMONY

1.3513

% ARSENIC

0.0089

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 09:19:59

K14E:

30427060 RB

SAMPLE WEIGHT: (UG) 12768.00
ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
ACQUIRE DATE: 10-MAY-83 03:35:05 GEM 13
PRESSET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
ELAPSED REAL TIME: 1008. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
Z-COPPER	511.0	205.	487.	0.0114	0.0007	6.3
Z-ANTIMONY	564.1	126.	33414.	1.3593	0.0097	0.7
Z-ARSENIC	559.3	144.	389.	0.0112	0.0008	6.8

	CU	SB	AS
CNIS/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2043	2235	2236
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2241 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1980:	15.	13.	14.	18.	21.	23.	18.	21.	22.
1997:	8.	17.	14.	16.	15.	13.	21.	12.	16.
2006:	17.	26.	18.	13.	12.	20.	9.	16.	18.
2015:	17.	20.	13.	12.	20.	13.	11.	17.	13.
2024:	16.	16.	17.	16.	18.	11.	12.	28.	16.
2033:	13.	20.	23.	26.	32.	40.	48.	46.	54.
2042:	53.	71.	65.	64.	61.	61.	57.	40.	23.
2051:	32.	30.	17.	17.	18.	17.	26.	13.	20.
2060:	20.	12.	9.	20.	9.	11.	27.	5.	17.
2069:	9.	11.	12.	10.	12.	10.	11.	18.	14.
2078:	18.	23.	9.	17.	11.	18.	16.	17.	16.
2087:	11.	15.	22.	14.	8.	16.	9.	13.	15.
2096:	14.	9.	22.	26.	18.	19.	13.	23.	17.
2105:	11.	13.	16.	8.	17.	20.	17.	13.	11.

% COPPER 0.0114

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
 10-MAY-83 09:20:20

K14L:

30427060 RE:

SAMPLE WEIGHT: (UG) 12768.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN R14

ACQUIRE DATE: 10-MAY-83 03:35:05

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED RFAL TIME: 1008. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	9.	16.	17.	13.	17.	18.	14.	17.	8.
2139:	13.	13.	11.	10.	11.	19.	17.	14.	14.
2148:	20.	11.	12.	17.	11.	13.	19.	22.	14.
2157:	12.	7.	18.	19.	13.	13.	15.	16.	9.
2166:	14.	20.	16.	12.	16.	13.	12.	16.	18.
2175:	10.	14.	14.	13.	22.	15.	9.	17.	16.
2184:	10.	15.	20.	10.	18.	9.	12.	13.	12.
2193:	19.	17.	9.	13.	15.	29.	5.	14.	7.
2202:	12.	14.	16.	10.	15.	11.	14.	13.	16.
2211:	16.	16.	16.	15.	14.	16.	17.	20.	11.
2220:	14.	22.	27.	20.	15.	16.	14.	18.	21.
2229:	21.	17.	38.	47.	57.	102.	92.	101.	95.
2238:	99.	52.	39.	27.	43.	42.	53.	42.	72.
2247:	71.	109.	212.	417.	906.	1829.	3211.	4605.	5551.
2256:	5636.	4768.	3343.	1834.	860.	360.	117.	43.	14.
2265:	9.	4.	6.	6.	10.	2.	6.	6.	2.
2274:	7.	4.	5.	0.	5.	7.	5.	5.	5.
2283:	5.	7.	4.	4.	5.	8.	5.	5.	2.
2292:	4.	1.	5.	3.	7.	4.	5.	5.	2.
2301:	5.	2.	5.	4.	2.	4.	10.	6.	12.
2310:	3.	6.	7.	3.	1.	5.	4.	5.	3.
2319:	3.	6.	4.	3.	4.	4.	5.	4.	0.
2328:	5.	8.	4.	4.	8.	3.	5.	4.	8.
2337:	7.	2.	2.	3.	1.	3.	8.	1.	4.
2346:	4.	4.	3.	0.	1.	3.	3.	7.	1.
2355:	5.	7.	6.	3.	4.	8.	4.	4.	3.
2364:	2.	1.	1.	2.	4.	2.	3.	6.	4.

% ANTIMONY

1.3593

% ARSENIC

0.0112

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10 MAY-83 09:21:05

K141:

30127060 KB

SAMPLE WLIGHT: (UG) 12097.00
ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN R14
ACQUIRE DATE: 10-MAY-83 03:52:04 GEM 10
PRESFT LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
ELAPSED REAL TIME: 1009. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGD	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	214.	435.	0.0103	0.0007	6.8
%-ANTIMONY	564.1	131.	33343.	1.3469	0.0096	0.7
%-ARSENIC	559.3	162.	346.	0.0099	0.0008	7.6

	CU	SB	AS
CNTS/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2043	2255	2236
HALF-HEIGHT	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2241 R
BACKGROUND CHANNELS	27 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	18.	14.	22.	20.	21.	18.	19.	21.	20.
1997:	18.	12.	17.	17.	21.	15.	19.	13.	13.
2006:	17.	19.	15.	15.	16.	15.	12.	13.	20.
2015:	18.	10.	21.	12.	21.	23.	18.	22.	12.
2024:	15.	17.	12.	14.	17.	22.	14.	13.	25.
2033:	17.	27.	33.	29.	40.	47.	35.	44.	55.
2042:	57.	49.	62.	72.	62.	50.	39.	37.	28.
2051:	33.	15.	21.	15.	18.	16.	19.	14.	8.
2060:	14.	17.	15.	18.	16.	20.	15.	17.	15.
2069:	17.	19.	21.	13.	16.	12.	17.	12.	17.
2078:	19.	15.	18.	15.	10.	22.	12.	17.	17.
2087:	17.	16.	15.	17.	18.	13.	13.	6.	16.
2096:	20.	14.	11.	9.	12.	17.	8.	11.	14.
2105:	11.	17.	15.	16.	22.	18.	11.	13.	11.

% COPPER 0.0103

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 09:22:03

K140

30427060 RB

SAMPLE WEIGHT: (UG) 12897.00
ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
ACQUIRE DATE: 10-MAY-83 03:52:04 GEM 13
PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
ELAPSED REAL TIME: 1009. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 1000. SEC OFFSET: 0.0226080 KEV

2130:	17.	15.	12.	15.	14.	17.	9.	16.	15.
2139:	9.	16.	12.	15.	10.	12.	10.	15.	11.
2148:	12.	11.	9.	12.	15.	12.	15.	10.	18.
2157:	14.	10.	13.	11.	17.	14.	16.	17.	12.
2166:	13.	11.	14.	15.	13.	21.	10.	13.	19.
2175:	14.	13.	13.	12.	18.	10.	13.	10.	21.
2184:	6.	12.	16.	9.	10.	17.	8.	13.	12.
2193:	19.	9.	14.	16.	6.	13.	8.	10.	15.
2202:	13.	20.	19.	11.	11.	20.	16.	14.	11.
2211:	12.	13.	15.	15.	16.	14.	9.	14.	18.
2220:	15.	9.	15.	21.	16.	19.	27.	16.	17.
2229:	17.	31.	28.	39.	69.	86.	97.	98.	99.
2238:	80.	68.	38.	31.	39.	37.	47.	54.	79.
2247:	75.	105.	214.	450.	919.	1816.	3103.	4465.	5553.
2256:	5612.	4902.	3785.	1868.	844.	363.	120.	38.	20.
2265:	3.	4.	11.	3.	3.	9.	6.	3.	3.
2274:	6.	3.	6.	3.	7.	6.	6.	5.	6.
2283:	7.	3.	3.	5.	4.	5.	4.	3.	7.
2292:	8.	6.	7.	3.	4.	3.	4.	4.	4.
2301:	5.	1.	0.	4.	6.	5.	2.	3.	7.
2310:	0.	6.	4.	5.	5.	7.	1.	7.	4.
2319:	1.	7.	2.	6.	9.	2.	5.	3.	3.
2328:	10.	7.	5.	9.	13.	5.	9.	6.	5.
2337:	5.	2.	2.	5.	3.	3.	1.	2.	4.
2346:	8.	7.	8.	2.	2.	4.	4.	3.	9.
2355:	3.	4.	1.	7.	7.	2.	2.	1.	5.
2364:	7.	7.	3.	5.	4.	5.	5.	4.	6.

% ANTIMONY 1.3469

% ARSENIC 0.0099

FILIPIN LABORATORY WASHINGTON DC

LEAD ANALYSIS

10 MAY-83 09:23:10

KISA

30427060 KB

SAMPLE WEIGHT: (UG) 12599.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 10-MAY-83 04:09:04

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1008. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	PKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	202.	400.	0.0098	0.0007	7.2
%-ANTIMONY	564.1	126.	32575.	1.3510	0.0097	0.7
%-ARSENIC	559.3	148.	324.	0.0096	0.0007	7.8
			CU			
CN15/UG/MIN AT RD			52.8			
CENTROID CHANNEL			2043			
HALF LIFE			12.8 H			
BACKGROUND SPACING			50 L&K			
BACKGROUND CHANNELS			22 L&K			
PEAK CHANNELS			13			
			SB			
			14.0			
			2255			
			2.7 D			
			80 L&K			
			22 L&K			
			13			
			AS			
			26.16			
			2236			
			26.3 H			
			30 L			
			CH 2244 R			
			11 L			
			J R			
			5			

1980:	18.	20.	18.	16.	16.	10.	19.	21.	16.
1997:	19.	17.	14.	16.	13.	18.	9.	29.	19.
2006:	17.	19.	26.	16.	22.	22.	8.	18.	19.
2015:	18.	10.	24.	21.	8.	17.	14.	15.	12.
2024:	10.	22.	16.	14.	18.	20.	22.	15.	19.
2033:	19.	17.	9.	21.	34.	46.	47.	52.	44.
2042:	61.	44.	56.	60.	44.	50.	34.	30.	29.
2051:	31.	28.	12.	17.	21.	20.	19.	16.	13.
2060:	12.	10.	17.	12.	16.	13.	15.	11.	26.
2069:	10.	12.	13.	17.	22.	20.	11.	16.	12.
2078:	16.	17.	7.	12.	11.	20.	19.	12.	8.
2087:	16.	11.	15.	15.	17.	21.	16.	11.	9.
2096:	12.	14.	11.	8.	23.	12.	15.	17.	14.
2105:	13.	11.	16.	18.	12.	16.	17.	17.	11.

% COPPER

0.0098

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 09:23:39

K15A

00427060 KB

SAMPLE WEIGHT: (UG) 12599.00
ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
ACQUIRE DATE: 10-MAY-83 04:09:04 GEM 13
PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
ELAPSED REAL TIME: 1008. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 1000. SEC OFFSET: 0.0226080 KEV

2130:	11.	12.	21.	18.	17.	11.	14.	15.	15.
2139:	11.	13.	9.	14.	11.	11.	13.	14.	13.
2148:	9.	18.	11.	18.	14.	12.	17.	11.	7.
2157:	4.	20.	13.	8.	13.	13.	12.	11.	12.
2166:	22.	11.	11.	18.	19.	17.	11.	5.	14.
2175:	14.	11.	17.	8.	17.	12.	8.	14.	11.
2184:	9.	9.	10.	13.	11.	16.	14.	10.	13.
2193:	6.	10.	13.	13.	13.	19.	12.	13.	11.
2202:	17.	11.	11.	13.	13.	18.	10.	13.	21.
2211:	15.	20.	13.	11.	22.	20.	14.	14.	13.
2220:	18.	14.	15.	24.	13.	15.	13.	17.	18.
2229:	29.	70.	34.	36.	53.	78.	92.	91.	96.
2238:	66.	51.	49.	35.	28.	38.	26.	43.	64.
2247:	72.	107.	210.	457.	942.	1805.	3008.	4449.	5291.
2256:	5593.	4614.	3204.	1942.	862.	324.	130.	30.	11.
2265:	9.	5.	3.	8.	5.	2.	4.	3.	5.
2274:	8.	6.	5.	4.	9.	2.	5.	5.	2.
2283:	1.	6.	4.	8.	3.	5.	3.	2.	2.
2292:	7.	9.	3.	9.	3.	7.	1.	6.	3.
2301:	3.	5.	4.	2.	6.	5.	7.	4.	3.
2310:	6.	0.	7.	7.	1.	5.	1.	4.	2.
2319:	1.	7.	4.	2.	2.	5.	2.	6.	1.
2328:	5.	3.	6.	7.	13.	12.	7.	2.	5.
2337:	3.	4.	3.	7.	4.	6.	5.	0.	0.
2346:	4.	1.	12.	7.	2.	3.	3.	4.	3.
2355:	5.	4.	4.	5.	5.	6.	6.	3.	3.
2364:	1.	0.	3.	2.	2.	3.	5.	2.	3.

% ANTIMONY 1.3510

% ARSENIC 0.0096

FELT LABORATORY WASHINGTON DC LEAD ANALYSIS

10-MAY-83 09:24:46

K15B

30427060 RB

SAMPLE WEIGHT: (UG) 12657.00
 ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
 ACQUIRE DATE: 10-MAY-83 04:26:04 GEM 13
 PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
 ELAPSED REAL TIME: 1008. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELI MENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	183.	432.	0.0107	0.0007	6.6
%-ANTIMONY	564.1	107.	32666.	1.3526	0.0097	0.7
%-ARSENIC	559.3	151.	279.	0.0083	0.0007	8.7

	CU	SE	AS
CNTS/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2044	2235	2236
HALF LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2241 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	26.	21.	20.	21.	12.	19.	15.	7.	14.
1997:	14.	11.	11.	18.	22.	22.	18.	19.	23.
2006:	17.	16.	17.	12.	16.	16.	13.	11.	12.
2015:	15.	14.	13.	16.	19.	13.	16.	15.	17.
2024:	16.	23.	23.	16.	15.	11.	12.	12.	22.
2033:	13.	24.	21.	33.	23.	34.	48.	51.	55.
2042:	57.	57.	49.	59.	47.	54.	36.	37.	31.
2051:	25.	19.	17.	21.	14.	9.	16.	11.	15.
2060:	10.	16.	12.	14.	11.	14.	26.	11.	18.
2069:	13.	12.	12.	10.	16.	6.	17.	14.	28.
2078:	14.	9.	11.	12.	15.	13.	16.	14.	21.
2087:	8.	12.	11.	14.	21.	11.	10.	8.	8.
2096:	16.	11.	16.	18.	23.	19.	14.	11.	9.
2105:	21.	11.	12.	6.	16.	14.	12.	15.	14.

% COPPER 0.0107

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 09:25:14

KLSH

30427060 RE

SAMPLE WEIGHT: (UG) 12657.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 10-MAY-83 04:26:04

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1008. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVL TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	10.	9.	5.	15.	11.	16.	8.	18.	10.
2139:	14.	10.	18.	16.	11.	13.	11.	16.	14.
2148:	17.	19.	13.	15.	16.	12.	7.	16.	9.
2157:	16.	16.	13.	17.	14.	14.	18.	19.	10.
2166:	11.	12.	11.	8.	8.	14.	12.	15.	14.
2175:	8.	18.	14.	14.	6.	6.	13.	13.	14.
2184:	21.	13.	11.	17.	11.	13.	16.	12.	15.
2193:	13.	10.	17.	17.	18.	12.	15.	9.	9.
2202:	17.	13.	19.	8.	11.	16.	18.	11.	19.
2211:	10.	22.	11.	16.	16.	12.	15.	16.	11.
2220:	14.	19.	22.	27.	19.	29.	18.	20.	18.
2229:	18.	27.	30.	43.	56.	74.	85.	96.	82.
2238:	66.	62.	55.	36.	37.	44.	47.	48.	69.
2247:	63.	94.	185.	421.	961.	1849.	3023.	4519.	5488.
2256:	5408.	4556.	3242.	1889.	868.	364.	116.	35.	18.
2265:	7.	6.	2.	9.	5.	7.	7.	3.	4.
2274:	5.	3.	1.	3.	7.	5.	7.	4.	2.
2283:	6.	5.	3.	8.	7.	8.	7.	3.	2.
2292:	9.	3.	5.	3.	2.	4.	6.	8.	7.
2301:	3.	2.	3.	5.	3.	0.	2.	3.	4.
2310:	4.	4.	4.	3.	6.	2.	3.	7.	0.
2319:	3.	5.	3.	2.	3.	1.	5.	2.	3.
2328:	8.	6.	5.	8.	7.	4.	7.	6.	1.
2337:	1.	6.	5.	2.	2.	1.	4.	5.	7.
2346:	4.	4.	5.	3.	1.	6.	5.	1.	5.
2355:	2.	5.	4.	5.	3.	6.	5.	4.	7.
2364:	2.	2.	2.	0.	7.	1.	6.	6.	4.

% ANTIMONY

1.13526

% ARSENIC

0.0083

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

10-MAY-83 09:26:22

K15C

30427060 KB

SAMPLE WEIGHT: (UG) 12607.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 10-MAY-83 04:43:03

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1008. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	189.	400.	0.0101	0.0007	7.1
%-ANTIMONY	564.1	143.	32646.	1.3613	0.0098	0.7
%-ARSENIC	559.3	170.	286.	0.0086	0.0008	8.8
			CU	SE	AS	
CNIS/UG/MIN AT RD			52.8	14.0	26.16	
CENTROID CHANNEL			2043	2255	2236	
HALF LIFE			12.8 H	2.7 D	26.3 H	
BACKGROUND SPACING			50 L&R	80 L&R	30 L	CH 2242 R
BACKGROUND CHANNELS			22 L&R	22 L&R	11 L	1 R
PEAK CHANNELS			13	13	5	

1988:	14.	18.	16.	15.	11.	13.	13.	18.	18.
1997:	18.	22.	12.	24.	15.	11.	13.	23.	19.
2006:	25.	20.	18.	17.	10.	9.	17.	14.	17.
2015:	13.	24.	19.	13.	20.	17.	16.	9.	19.
2024:	14.	17.	22.	14.	17.	13.	24.	24.	18.
2033:	21.	31.	36.	28.	31.	31.	43.	50.	44.
2042:	65.	54.	52.	54.	41.	39.	45.	39.	21.
2051:	23.	14.	15.	15.	14.	17.	8.	12.	9.
2060:	13.	13.	12.	18.	15.	13.	13.	16.	18.
2069:	14.	15.	11.	14.	14.	14.	14.	20.	10.
2078:	18.	11.	10.	16.	8.	13.	14.	11.	15.
2087:	20.	16.	9.	15.	12.	12.	12.	13.	15.
2096:	9.	12.	18.	14.	7.	16.	17.	19.	15.
2105:	13.	10.	18.	12.	18.	13.	10.	15.	11.

% COPPER

0.0101

LEAD ANALYSIS

10-MAY-83 09:26:51

K15C

30427060 RE

SAMPLE WEIGHT: (UG) 12607.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 10-MAY-83 04:43:03

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1008. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	9.	15.	10.	14.	8.	11.	13.	18.	13.
2139:	10.	19.	15.	7.	17.	15.	9.	15.	14.
2148:	13.	9.	13.	14.	12.	11.	15.	15.	18.
2157:	20.	14.	18.	15.	11.	18.	12.	11.	14.
2166:	13.	12.	10.	13.	19.	13.	20.	17.	16.
2175:	19.	19.	16.	9.	14.	13.	18.	11.	16.
2184:	8.	11.	19.	13.	14.	14.	11.	11.	13.
2193:	13.	13.	11.	9.	19.	15.	11.	12.	10.
2202:	9.	17.	10.	12.	18.	16.	25.	11.	21.
2211:	21.	11.	15.	6.	15.	21.	19.	8.	20.
2220:	19.	12.	15.	16.	17.	21.	13.	21.	14.
2229:	26.	24.	28.	48.	64.	80.	81.	78.	94.
2238:	69.	49.	42.	45.	31.	37.	40.	64.	55.
2247:	68.	121.	226.	455.	839.	1849.	3042.	4440.	5427.
2256:	5464.	4679.	3257.	1884.	849.	378.	131.	38.	13.
2265:	7.	4.	4.	7.	3.	8.	5.	2.	7.
2274:	3.	4.	2.	2.	4.	4.	4.	3.	4.
2283:	3.	4.	2.	5.	3.	3.	6.	5.	2.
2292:	5.	5.	8.	3.	5.	3.	7.	7.	9.
2301:	5.	4.	6.	1.	5.	3.	4.	5.	1.
2310:	2.	1.	4.	4.	4.	8.	6.	2.	3.
2319:	4.	1.	3.	3.	2.	2.	3.	2.	2.
2328:	10.	11.	7.	8.	6.	6.	10.	6.	5.
2337:	5.	4.	6.	4.	2.	3.	3.	1.	3.
2346:	3.	5.	5.	2.	5.	6.	4.	4.	4.
2355:	7.	2.	5.	3.	7.	4.	3.	1.	6.
2364:	1.	3.	4.	3.	3.	3.	3.	6.	6.

Z ANTIMONY

1.3613

Z ARSENIC

0.0086

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
 10-MAY-83 09:27:58

5604A

30427060 RE

SAMPLE WEIGHT: (UG) 12496.00
 ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
 ACQUIRE DATE: 10-MAY-83 05:00:03 GEM 13
 PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
 ELAPSED REAL TIME: 1011. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

FLUORENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	269.	319.	0.0082	0.0008	9.3
%-ANTIMONY	564.1	180.	42858.	1.8084	0.0120	0.7
%-ARSENIC	559.3	223.	3212.	0.0981	0.0021	2.2

	CU	SB	AS
CNTS/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2044	2255	2236
HALF LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2243 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	29.	22.	24.	25.	26.	28.	14.	27.	23.
1997:	18.	17.	18.	35.	24.	22.	30.	19.	19.
2006:	13.	19.	31.	10.	28.	20.	18.	22.	35.
2015:	26.	23.	29.	23.	26.	24.	20.	14.	29.
2024:	21.	28.	24.	26.	19.	19.	19.	14.	19.
2033:	19.	28.	26.	29.	32.	38.	40.	50.	53.
2042:	53.	55.	55.	43.	47.	55.	32.	34.	33.
2051:	22.	19.	24.	22.	18.	27.	72.	26.	21.
2060:	24.	16.	23.	21.	22.	20.	17.	25.	18.
2069:	19.	17.	24.	18.	25.	20.	23.	18.	22.
2078:	20.	20.	15.	22.	19.	19.	29.	25.	28.
2087:	27.	13.	23.	15.	19.	18.	25.	18.	17.
2096:	16.	25.	25.	13.	19.	19.	22.	24.	15.
2105:	17.	22.	17.	20.	17.	26.	14.	19.	15.

% COPPER 0.0082

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 09:28:27

5604A

30427060 RE

SAMPLE WEIGHT: (UG) 12496.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 10-MAY-83 05:00:03

GEM 13

PRESLT LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1011. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	18.	18.	16.	18.	18.	21.	12.	23.	19.
2139:	19.	20.	23.	13.	16.	22.	16.	16.	16.
2148:	16.	21.	20.	17.	18.	17.	23.	13.	10.
2157:	17.	24.	22.	19.	19.	16.	17.	18.	21.
2166:	24.	19.	14.	20.	14.	12.	21.	24.	22.
2175:	22.	16.	17.	25.	26.	21.	19.	23.	15.
2184:	30.	13.	18.	18.	18.	19.	16.	18.	22.
2193:	21.	17.	24.	22.	27.	17.	17.	27.	22.
2202:	19.	21.	13.	27.	13.	19.	28.	20.	24.
2211:	17.	29.	22.	20.	20.	26.	30.	28.	23.
2220:	28.	24.	31.	29.	29.	31.	24.	42.	49.
2229:	57.	66.	132.	229.	409.	618.	749.	817.	691.
2238:	518.	266.	193.	103.	66.	52.	65.	68.	77.
2247:	98.	156.	277.	604.	1204.	2315.	4013.	5932.	7066.
2256:	7120.	6079.	4239.	2484.	1232.	473.	142.	44.	19.
2265:	5.	6.	6.	2.	5.	5.	11.	7.	10.
2274:	5.	6.	4.	7.	6.	8.	7.	5.	3.
2283:	6.	9.	8.	11.	10.	7.	6.	4.	4.
2292:	4.	3.	3.	7.	6.	5.	4.	7.	7.
2301:	15.	7.	5.	7.	7.	10.	8.	6.	6.
2310:	1.	3.	5.	4.	4.	5.	3.	4.	7.
2319:	7.	8.	8.	9.	6.	5.	3.	6.	8.
2328:	4.	3.	4.	10.	11.	15.	4.	6.	7.
2337:	9.	8.	4.	6.	3.	6.	5.	8.	5.
2346:	5.	4.	3.	8.	5.	7.	4.	4.	3.
2355:	3.	8.	5.	6.	5.	10.	4.	6.	1.
2364:	6.	2.	5.	6.	4.	8.	5.	6.	4.

% ANTIMONY

1.8084

% ARSENIC

0.0981

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 09:29:34

5604H

30427060 RE

SAMPLE WEIGHT: (UG) 11883.00
ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
ACQUIRE DATE: 10-MAY-83 05:17:07 GEM 13
PRESHI LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
ELAPSED REAL TIME: 1011. SEC KEV/CHNL: 0.2500463
CLAPSED LIVE TIME: 1000. SEC OFFSET: 0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	299.	273.	0.0075	0.0008	10.9
%-ANTIMONY	564.1	160.	41450.	1.8448	0.0124	0.7
%-ARSENIC	559.3	233.	3150.	0.1019	0.0022	2.2

	CU	SE	AS
CNTS/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2043	2255	2236
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2243 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	25.	24.	15.	25.	29.	33.	20.	20.	27.
1997:	21.	22.	28.	25.	26.	22.	16.	15.	26.
2006:	26.	17.	21.	22.	20.	35.	21.	16.	20.
2015:	16.	20.	21.	40.	25.	29.	19.	22.	28.
2024:	21.	21.	18.	23.	19.	21.	27.	24.	27.
2033:	21.	32.	20.	24.	40.	42.	40.	37.	50.
2042:	42.	51.	61.	52.	41.	38.	37.	41.	37.
2051:	20.	23.	29.	14.	23.	29.	21.	26.	20.
2060:	24.	17.	16.	22.	17.	24.	16.	15.	25.
2069:	15.	27.	26.	24.	23.	18.	21.	16.	19.
2078:	22.	14.	22.	18.	18.	27.	21.	20.	24.
2087:	24.	24.	25.	22.	18.	27.	20.	20.	19.
2096:	20.	24.	26.	24.	7.	13.	21.	20.	23.
2105:	19.	20.	27.	21.	23.	24.	14.	25.	21.

% COPPER 0.0075

LEAD ANALYSIS

10-MAY-83 09:30:07

5404H

3042/060 RE

SAMPLE WEIGHT: (UG) 11883.00

ACTIVATION: 09-MAY 83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 10-MAY-83 05:17:07

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1011. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	18.	18.	23.	19.	9.	20.	15.	15.	17.
2139:	22.	23.	24.	10.	17.	17.	15.	25.	13.
2148:	13.	17.	20.	22.	16.	17.	30.	16.	21.
2157:	18.	21.	25.	19.	19.	14.	21.	19.	20.
2166:	17.	14.	14.	17.	12.	16.	20.	17.	21.
2175:	16.	8.	26.	15.	21.	21.	20.	34.	17.
2184:	12.	19.	14.	27.	23.	14.	17.	28.	14.
2193:	17.	21.	15.	18.	27.	18.	14.	17.	22.
2202:	25.	16.	20.	19.	21.	14.	19.	32.	22.
2211:	23.	16.	17.	25.	32.	26.	14.	25.	22.
2220:	19.	17.	24.	17.	31.	24.	32.	35.	32.
2229:	43.	82.	132.	292.	437.	618.	736.	831.	695.
2238:	460.	324.	165.	100.	64.	55.	56.	58.	79.
2247:	100.	161.	269.	536.	1242.	2326.	3863.	5691.	6942.
2256:	6886.	5775.	4152.	2339.	1133.	456.	165.	38.	21.
2265:	11.	5.	6.	7.	7.	5.	12.	5.	4.
2274:	6.	11.	7.	5.	6.	10.	9.	3.	6.
2283:	5.	7.	7.	8.	4.	8.	6.	9.	7.
2292:	0.	9.	3.	9.	9.	6.	1.	8.	8.
2301:	9.	6.	3.	4.	3.	9.	6.	11.	4.
2310:	3.	5.	6.	2.	6.	9.	10.	5.	5.
2319:	6.	3.	4.	5.	5.	5.	10.	4.	5.
2328:	5.	4.	6.	12.	6.	7.	5.	8.	7.
2337:	6.	6.	6.	8.	6.	4.	6.	10.	6.
2346:	5.	5.	5.	3.	2.	2.	7.	5.	5.
2355:	6.	5.	2.	1.	5.	3.	4.	10.	4.
2364:	4.	5.	8.	6.	3.	2.	6.	5.	4.

Z ANTIMONY

1.8448

Z ARSENIC

0.1019

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 09:31:10

S6040

30427060 KB

SAMPLE WEIGHT: (UG) 12158.00
ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
ACQUIRE DATE: 10-MAY-83 05:34:10 GEM 13
PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
ELAPSED REAL TIME: 1012. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGD	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COOPER	511.0	277.	263.	0.0072	0.0008	10.9
%-ANTIMONY	564.1	178.	42709.	1.8634	0.0124	0.7
%-ARSENIC	559.3	254.	3144.	0.1002	0.0022	2.2

	CU	SB	AS
CNTS/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2043	2255	2236
HALF LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&K	80 L&K	30 L CH 2243 R
BACKGROUND CHANNELS	22 L&K	22 L&K	11 L 1 R
PEAK CHANNELS	13	13	5

1980:	21.	23.	20.	20.	23.	22.	23.	29.	33.
1997:	28.	21.	25.	18.	20.	19.	19.	24.	28.
2006:	27.	23.	27.	21.	24.	14.	15.	23.	19.
2015:	22.	26.	26.	29.	14.	21.	29.	15.	29.
2024:	27.	18.	19.	33.	21.	30.	22.	26.	18.
2033:	31.	28.	32.	23.	30.	41.	41.	39.	47.
2042:	44.	53.	54.	45.	49.	33.	35.	29.	24.
2051:	31.	24.	25.	21.	30.	27.	29.	24.	26.
2060:	33.	20.	22.	19.	16.	21.	19.	16.	27.
2069:	20.	23.	19.	22.	17.	21.	25.	16.	24.
2078:	33.	26.	19.	15.	29.	19.	17.	15.	20.
2087:	11.	19.	10.	22.	17.	28.	11.	22.	22.
2096:	24.	9.	22.	14.	22.	29.	17.	29.	18.
2105:	13.	16.	20.	16.	21.	13.	19.	20.	20.

% COOPER 0.0072

FEDERAL BUREAU OF INVESTIGATION WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 09:31:38

S6040

30427060 RB

SAMPLE WEIGHT: (UG) 12158.00
ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
ACQUIRE DATE: 10-MAY-83 05:34:10 GEM 13
PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
ELAPSED REAL TIME: 1012. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

2130:	12.	18.	19.	18.	18.	23.	15.	15.	15.
2139:	19.	14.	25.	26.	20.	22.	15.	19.	16.
2148:	20.	23.	18.	19.	19.	17.	16.	30.	18.
2157:	25.	19.	16.	23.	22.	32.	14.	22.	17.
2166:	18.	17.	21.	24.	15.	19.	23.	17.	25.
2175:	23.	16.	18.	19.	22.	22.	21.	19.	13.
2184:	20.	13.	14.	21.	21.	25.	23.	13.	14.
2193:	20.	29.	17.	18.	31.	16.	22.	18.	23.
2202:	24.	24.	18.	22.	19.	22.	31.	24.	26.
2211:	21.	28.	17.	14.	20.	29.	26.	25.	28.
2220:	26.	24.	30.	28.	19.	35.	33.	34.	35.
2229:	55.	85.	161.	297.	453.	602.	778.	771.	679.
2238:	512.	279.	153.	107.	72.	56.	62.	66.	76.
2247:	98.	152.	281.	557.	1222.	2370.	4096.	5822.	7075.
2256:	7193.	6060.	4201.	2411.	1140.	459.	151.	45.	20.
2265:	8.	7.	7.	8.	9.	9.	6.	1.	8.
2274:	6.	8.	5.	7.	6.	3.	5.	5.	10.
2283:	14.	6.	6.	5.	9.	8.	4.	8.	2.
2292:	7.	2.	7.	5.	8.	6.	7.	3.	7.
2301:	6.	5.	6.	11.	6.	5.	2.	7.	1.
2310:	7.	4.	4.	5.	4.	9.	4.	8.	7.
2319:	4.	3.	10.	4.	9.	6.	3.	4.	4.
2328:	5.	7.	18.	5.	12.	11.	11.	9.	7.
2337:	7.	1.	4.	4.	6.	4.	8.	3.	2.
2346:	5.	8.	3.	3.	10.	7.	8.	6.	5.
2355:	6.	3.	9.	12.	6.	2.	4.	5.	3.
2364:	5.	6.	1.	5.	8.	4.	3.	3.	3.

% ANTIMONY 1.8634

% ARSENIC 0.1002

FEL LABORATORY WASHINGTON DC LEAD ANALYSIS

10-MAY-83 09:32:45

S626A

30427060 KB

SAMPLE WEIGHT: (UG) 10917.00
 ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
 ACQUIRE DATE: 10-MAY-83 05:51:14 GEM 13
 PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
 ELAPSED REAL TIME: 1005. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVL TIME: 1000. SEC OFFSET: -0.0226080 KEV

FILMENT	PEAK ENERGY	PKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	115.	2546.	0.0790	0.0019	2.4
%-ANTIMONY	564.1	72.	14756.	0.7191	0.0068	0.9
%-ARSENIC	559.3	70.	84.	0.0030	0.0005	17.8

	CU	SB	AS
CNIS/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2043	2255	2236
HALF LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2242 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1980:	9.	14.	7.	9.	9.	18.	5.	10.	12.
1997:	8.	13.	4.	16.	11.	9.	7.	16.	10.
2006:	13.	6.	9.	13.	5.	12.	9.	9.	16.
2015:	9.	11.	14.	8.	14.	8.	11.	13.	7.
2024:	12.	11.	11.	16.	15.	21.	21.	18.	33.
2033:	32.	33.	66.	74.	120.	137.	180.	217.	217.
2042:	289.	275.	265.	255.	243.	183.	163.	117.	96.
2051:	63.	31.	38.	25.	23.	18.	19.	11.	11.
2060:	12.	5.	8.	4.	4.	5.	12.	13.	9.
2069:	7.	7.	10.	6.	12.	8.	6.	5.	6.
2078:	1.	4.	7.	5.	8.	13.	7.	9.	4.
2087:	8.	5.	12.	9.	3.	3.	8.	3.	13.
2096:	6.	7.	12.	7.	7.	10.	8.	8.	5.
2105:	2.	7.	6.	12.	6.	11.	7.	8.	7.

% COPPER 0.0790

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
 10-MAY-83 09:33:13

5626A

30427060 RE

SAMPLE WEIGHT: (UG) 10917.00
 ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
 ACQUIRE DATE: 10-MAY-83 05:51:14 GEM 13
 PRESET LIVL TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
 ELAPSED REAL TIME: 1005. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

2130:	6.	4.	6.	3.	6.	9.	11.	8.	8.
2139:	4.	4.	7.	9.	11.	6.	4.	7.	9.
2148:	3.	14.	8.	1.	4.	8.	7.	6.	1.
2157:	7.	3.	12.	5.	7.	10.	6.	3.	3.
2166:	9.	7.	3.	7.	5.	4.	4.	7.	3.
2175:	9.	4.	6.	12.	12.	6.	7.	6.	5.
2184:	10.	4.	4.	9.	5.	9.	8.	11.	6.
2193:	8.	8.	8.	12.	6.	9.	8.	7.	11.
2202:	7.	5.	3.	3.	7.	11.	5.	7.	7.
2211:	4.	8.	13.	3.	9.	6.	1.	9.	8.
2220:	9.	13.	11.	7.	4.	4.	4.	7.	7.
2229:	13.	10.	15.	16.	18.	28.	31.	29.	28.
2238:	19.	22.	20.	14.	14.	18.	17.	21.	27.
2247:	30.	49.	100.	199.	407.	789.	1420.	2040.	2433.
2256:	2451.	2129.	1447.	855.	398.	159.	57.	17.	9.
2265:	3.	2.	3.	4.	3.	2.	5.	2.	3.
2274:	3.	3.	1.	1.	1.	1.	5.	2.	0.
2283:	3.	4.	1.	3.	1.	4.	3.	3.	1.
2292:	4.	4.	3.	2.	3.	1.	3.	3.	1.
2301:	0.	2.	3.	3.	2.	3.	1.	3.	2.
2310:	1.	3.	5.	4.	2.	0.	3.	2.	2.
2319:	1.	2.	3.	1.	4.	0.	3.	3.	2.
2328:	2.	1.	5.	9.	7.	10.	4.	5.	4.
2337:	0.	0.	2.	3.	3.	1.	0.	0.	2.
2346:	2.	5.	5.	4.	1.	2.	1.	1.	4.
2355:	3.	2.	2.	4.	4.	4.	1.	2.	0.
2364:	4.	3.	1.	0.	3.	0.	3.	3.	1.

% ANTIMONY 0.7191

% ARSENIC 0.0030

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

10-MAY-83 09:34:20

S626B

30427060 RB

SAMPLE WEIGHT: (UG) 12539.00
 ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
 ACQUIRE DATE: 10-MAY-83 06:08:10 GEM 13
 PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
 ELAPSED REAL TIME: 1004. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	PKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
Z-COPPER	511.0	124.	2859.	0.0784	0.0018	2.3
Z-ANTIMONY	564.1	82.	16875.	0.7182	0.0064	0.9
Z-ARSENIC	559.3	85.	80.	0.0025	0.0005	19.8

	CU	SB	AS
CNTS/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2044	2255	2236
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2238 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1980:	11.	14.	8.	8.	6.	8.	11.	14.	14.
1997:	11.	12.	16.	6.	8.	14.	17.	7.	8.
2006:	10.	9.	14.	8.	8.	12.	8.	8.	9.
2015:	10.	8.	12.	13.	7.	7.	12.	11.	16.
2024:	7.	12.	11.	11.	12.	14.	22.	14.	28.
2033:	42.	42.	58.	86.	86.	143.	220.	222.	271.
2042:	328.	306.	299.	294.	297.	186.	178.	145.	94.
2051:	71.	40.	33.	26.	27.	26.	8.	10.	11.
2060:	7.	15.	7.	16.	11.	4.	10.	11.	15.
2069:	10.	7.	13.	7.	7.	10.	11.	9.	5.
2078:	4.	5.	6.	6.	6.	12.	9.	4.	9.
2087:	6.	9.	6.	12.	7.	8.	8.	8.	7.
2096:	9.	6.	11.	6.	5.	11.	9.	11.	7.
2105:	6.	7.	9.	6.	8.	8.	11.	9.	7.

Z COPPER

0.0784

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

10-MAY-83 09:34:49

S626E:

30427060 RB

SAMPLE WEIGHT: (UG) 12539.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQIRL DATE: 10-MAY-83 06:08:10

GEM 13

PRESCT LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1004. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	12.	7.	1.	10.	8.	5.	10.	6.	6.
2139:	9.	8.	13.	11.	15.	8.	4.	4.	5.
2148:	6.	10.	10.	7.	6.	5.	7.	14.	8.
2157:	4.	8.	11.	5.	6.	3.	9.	11.	9.
2166:	6.	10.	6.	4.	11.	6.	12.	11.	8.
2175:	9.	6.	6.	5.	7.	9.	7.	10.	11.
2184:	6.	10.	8.	11.	6.	10.	8.	9.	7.
2193:	16.	13.	12.	4.	9.	4.	5.	3.	8.
2202:	6.	8.	7.	3.	9.	6.	10.	9.	10.
2211:	9.	4.	8.	9.	5.	13.	4.	12.	14.
2220:	7.	6.	13.	13.	10.	18.	16.	14.	10.
2229:	13.	13.	14.	26.	15.	27.	38.	30.	30.
2238:	17.	25.	21.	19.	22.	26.	20.	28.	30.
2247:	41.	53.	108.	213.	459.	945.	1526.	2029.	2765.
2256:	7928.	2385.	1676.	982.	466.	175.	66.	17.	7.
2265:	3.	3.	3.	3.	1.	4.	4.	5.	5.
2274:	3.	2.	4.	5.	3.	7.	2.	1.	5.
2283:	4.	7.	5.	3.	2.	2.	1.	1.	3.
2292:	2.	2.	4.	5.	3.	5.	1.	5.	1.
2301:	6.	1.	2.	6.	1.	1.	6.	4.	0.
2310:	1.	0.	3.	2.	1.	4.	5.	2.	0.
2319:	4.	4.	3.	3.	5.	3.	7.	3.	4.
2328:	6.	6.	3.	7.	9.	7.	7.	3.	5.
2337:	1.	2.	2.	3.	5.	0.	3.	2.	0.
2346:	3.	2.	1.	2.	3.	3.	3.	0.	3.
2355:	1.	5.	2.	2.	3.	3.	3.	2.	3.
2364:	2.	4.	4.	4.	4.	1.	0.	3.	1.

% ANTIMONY

0.7182

% ARSENIC

0.0025

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 09:35:56

56260

30427060 KB

SAMPLE WEIGHT: (UG) 12633.00
ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
ACQUIRE DATE: 10-MAY-83 06:25:05 GEM 13
PRESET TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
ELAPSED REAL TIME: 1005. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BACKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	117.	2779.	0.0768	0.0018	2.3
%-ANTIMONY	564.1	79.	17054.	0.7226	0.0065	0.9
%-ARSENIC	559.3	86.	101.	0.0032	0.0005	16.4

	CU	SB	AS
CNTS/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2044	2255	2236
HALF LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2242 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1980:	11.	9.	10.	9.	12.	5.	13.	12.	8.
1997:	10.	5.	9.	8.	10.	6.	15.	14.	6.
2006:	14.	15.	12.	11.	9.	9.	12.	11.	14.
2015:	18.	13.	9.	10.	10.	13.	11.	12.	8.
2024:	14.	11.	14.	17.	13.	19.	26.	29.	25.
2033:	27.	40.	60.	76.	92.	154.	198.	216.	278.
2042:	291.	294.	311.	256.	248.	229.	175.	143.	103.
2051:	64.	42.	37.	19.	15.	32.	19.	15.	13.
2060:	8.	9.	10.	13.	9.	8.	9.	2.	10.
2069:	12.	11.	8.	10.	9.	5.	9.	8.	10.
2078:	9.	6.	11.	8.	10.	11.	7.	12.	13.
2087:	8.	4.	11.	6.	5.	8.	6.	13.	14.
2096:	9.	8.	5.	11.	7.	4.	12.	7.	7.
2105:	9.	8.	9.	7.	7.	11.	18.	8.	6.

% COPPER 0.0768

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
10-MAY-83 09:36:24

5626C

3042/060 KB

SAMPLE WEIGHT: (UG) 12633.00

ACTIVATION: 09 MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 10-MAY-83 06:25:05

GEM 13

PRESFT LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1005. SEC

KEV/CHNL: 0.2500463

LLAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	8.	4.	4.	5.	9.	9.	5.	6.	4.
2139:	7.	9.	16.	3.	6.	9.	9.	3.	5.
2148:	7.	6.	7.	6.	4.	8.	3.	8.	7.
2157:	12.	7.	7.	8.	11.	6.	8.	7.	7.
2166:	8.	8.	12.	7.	7.	15.	7.	12.	8.
2175:	7.	6.	5.	10.	3.	6.	8.	15.	10.
2184:	7.	9.	11.	9.	6.	3.	8.	6.	7.
2193:	6.	4.	8.	8.	10.	12.	9.	6.	4.
2202:	5.	10.	8.	13.	8.	6.	3.	6.	9.
2211:	14.	9.	13.	4.	11.	11.	12.	5.	15.
2220:	7.	7.	10.	8.	11.	9.	6.	8.	4.
2229:	15.	11.	16.	14.	28.	22.	26.	42.	35.
2238:	28.	19.	17.	21.	13.	24.	23.	27.	33.
2247:	33.	46.	103.	209.	415.	892.	1510.	2246.	2755.
2256:	2891.	2518.	1815.	1065.	516.	198.	77.	17.	11.
2265:	2.	5.	2.	3.	3.	0.	6.	3.	1.
2274:	2.	0.	5.	3.	1.	4.	3.	3.	4.
2283:	4.	1.	1.	2.	4.	0.	1.	3.	4.
2292:	0.	2.	1.	5.	4.	5.	3.	4.	1.
2301:	2.	1.	1.	3.	5.	3.	1.	2.	2.
2310:	5.	4.	1.	4.	2.	3.	5.	0.	3.
2319:	3.	4.	4.	4.	5.	1.	4.	2.	1.
2328:	4.	3.	4.	4.	7.	7.	4.	6.	4.
2337:	3.	1.	5.	3.	5.	3.	4.	2.	5.
2346:	2.	2.	4.	2.	4.	3.	2.	4.	4.
2355:	4.	2.	2.	3.	3.	3.	0.	2.	3.
2364:	2.	2.	3.	1.	1.	2.	2.	3.	3.

% ANTIMONY

0.7226

% ARSENIC

0.0032

FEDERAL BUREAU OF INVESTIGATION WASHINGTON DC

LEAD ANALYSIS

10-MAY-83 09:37:02

BLANK

30427060 KB

SAMPLE WEIGHT: (UG) 12000.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 10-MAY-83 06:42:05

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1001. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	12.	38.	0.0011	0.0002	21.0
%-ANTIMONY	564.1	27.	0.	0.0000E-01	NOT DETECTABLE	
%-ARSENIC	559.3	19.	1.	2.2677E-05	2.0687E-04	912.2

	CU	SE	AS
CNTS/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2045	2257	2236
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2245 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1980:	2.	4.	3.	4.	0.	0.	2.	0.	0.
1997:	0.	1.	0.	0.	0.	1.	5.	4.	1.
2006:	1.	0.	1.	3.	1.	2.	2.	0.	0.
2015:	2.	1.	2.	4.	0.	1.	2.	1.	0.
2024:	3.	2.	3.	1.	2.	1.	1.	1.	0.
2033:	4.	3.	4.	2.	1.	1.	3.	4.	4.
2042:	6.	8.	4.	9.	1.	5.	0.	1.	3.
2051:	7.	0.	0.	1.	2.	2.	1.	0.	1.
2060:	0.	2.	0.	2.	3.	2.	6.	0.	0.
2069:	4.	2.	3.	2.	0.	1.	0.	0.	2.
2078:	1.	2.	0.	2.	3.	1.	0.	0.	0.
2087:	3.	4.	3.	1.	0.	1.	2.	0.	2.
2096:	3.	1.	0.	1.	0.	0.	4.	2.	1.
2105:	0.	0.	1.	1.	2.	2.	1.	0.	1.

% COPPER

0.0011

LEAD ANALYSIS

10-MAY-83 09:38:00

BLANK

30427060 KB

SAMPLE WEIGHT: (UG) 12000.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN RT4

ACQUIRE DATE: 10-MAY-83 06:42:05

GEM 13

PRESH LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1001. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	0.	1.	0.	2.	1.	2.	2.	3.	4.
2139:	0.	3.	1.	2.	2.	2.	2.	1.	2.
2148:	0.	1.	2.	2.	0.	1.	1.	0.	3.
2157:	3.	1.	0.	2.	2.	1.	0.	0.	0.
2166:	1.	3.	1.	1.	1.	1.	0.	3.	0.
2175:	1.	2.	2.	1.	2.	1.	1.	1.	0.
2184:	0.	1.	1.	1.	0.	1.	0.	2.	0.
2193:	0.	2.	2.	1.	2.	0.	1.	0.	2.
2202:	3.	3.	0.	1.	3.	0.	2.	0.	4.
2211:	1.	1.	0.	2.	2.	1.	1.	1.	0.
2220:	2.	0.	3.	1.	2.	1.	2.	3.	6.
2229:	0.	1.	2.	2.	2.	1.	2.	1.	0.
2238:	1.	0.	0.	2.	2.	1.	3.	0.	1.
2247:	1.	0.	0.	0.	2.	1.	1.	1.	5.
2256:	2.	4.	1.	2.	3.	0.	1.	2.	0.
2265:	0.	0.	2.	0.	1.	0.	2.	2.	1.
2274:	1.	3.	2.	1.	1.	1.	1.	2.	1.
2283:	1.	2.	0.	0.	1.	1.	2.	0.	0.
2292:	1.	1.	0.	1.	1.	1.	1.	1.	1.
2301:	0.	2.	1.	2.	4.	0.	1.	0.	2.
2310:	1.	0.	3.	3.	2.	0.	0.	2.	2.
2319:	3.	1.	0.	0.	1.	0.	2.	1.	1.
2328:	0.	2.	6.	1.	7.	7.	7.	2.	6.
2337:	1.	1.	0.	0.	0.	1.	1.	4.	0.
2346:	0.	0.	1.	1.	0.	0.	1.	0.	1.
2355:	4.	1.	1.	0.	1.	0.	2.	1.	0.
2364:	1.	0.	3.	0.	0.	2.	0.	0.	0.

% ANTIMONY

0.0000

% ARSENIC

0.0000

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

10-MAY-83 09:39:07

EL#2

3042/060 KB

SAMPLE WEIGHT: (UG) 12000.00
 ACTIVATION: 09-MAY-83 09:49:00 NBS 10 MIN RT4
 ACQUIRE DATE: 10-MAY-83 06:59:00 GEM 13
 PRESET LIVE TIME: 1000. SEC CALIB DATE: 04-MAY-83 14:44:37
 ELAPSED REAL TIME: 1001. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 1000. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	PKCND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
% COPPER	511.0	14.	33.	0.0010	0.0007	23.3
% ANTIMONY	564.1	21.	0.	0.0000E-01	NOT DETECTABLE	
% ARSENIC	559.3	12.	0.	9.1383E-06	1.6509E-04	1806.6

	CU	SB	AS
CNTS/UG/MIN AT RD	52.8	14.0	26.16
CENTROID CHANNEL	2042	2257	2236
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2246 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	2.	0.	1.	1.	0.	2.	5.	1.	1.
1997:	1.	3.	1.	2.	0.	0.	1.	1.	2.
2006:	1.	2.	1.	0.	1.	0.	1.	1.	1.
2015:	1.	4.	2.	2.	1.	2.	0.	2.	2.
2024:	0.	0.	1.	1.	1.	2.	3.	1.	1.
2033:	2.	2.	1.	2.	3.	7.	2.	4.	5.
2042:	5.	3.	3.	5.	3.	2.	3.	1.	1.
2051:	4.	1.	0.	1.	1.	2.	0.	3.	0.
2060:	0.	1.	2.	3.	1.	1.	1.	4.	1.
2069:	1.	0.	1.	1.	0.	3.	1.	0.	0.
2078:	0.	0.	1.	0.	2.	0.	1.	0.	1.
2087:	1.	0.	1.	1.	0.	2.	0.	1.	1.
2096:	2.	0.	2.	0.	2.	1.	2.	0.	0.
2105:	0.	3.	0.	1.	1.	2.	1.	0.	0.

% COPPER

0.0010

FEDERAL BUREAU OF INVESTIGATION WASHINGTON DC
 LEAD ANALYSIS
 10-MAY-83 09:39:35

062

3042/060 KB

SAMPLE WEIGHT: (UG) 12000.00

ACTIVATION: 09-MAY-83 09:49:00

NBS 10 MIN R14

ACQUIRE DATE: 10-MAY-83 06:59:00

GEM 13

PRESET LIVE TIME: 1000. SEC

CALIB DATE: 04-MAY-83 14:44:37

ELAPSED REAL TIME: 1001. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 1000. SEC

OFFSET: -0.0226080 KEV

2130:	0.	2.	0.	0.	2.	0.	0.	1.	2.
2139:	1.	0.	1.	0.	0.	1.	1.	1.	3.
2148:	1.	2.	1.	1.	1.	2.	1.	0.	2.
2157:	1.	3.	2.	0.	1.	0.	1.	0.	2.
2166:	2.	1.	3.	0.	1.	0.	1.	0.	2.
2175:	0.	0.	2.	2.	1.	2.	0.	1.	2.
2184:	2.	1.	0.	5.	2.	2.	2.	0.	3.
2193:	2.	0.	1.	3.	0.	1.	0.	0.	1.
2202:	4.	0.	0.	1.	2.	0.	1.	1.	0.
2211:	2.	0.	0.	3.	0.	3.	0.	0.	2.
2220:	0.	2.	0.	0.	1.	2.	1.	1.	1.
2229:	1.	3.	2.	1.	0.	1.	0.	0.	2.
2238:	0.	1.	2.	1.	4.	2.	1.	1.	0.
2247:	1.	2.	0.	0.	1.	1.	0.	3.	0.
2256:	4.	1.	2.	2.	3.	1.	0.	1.	0.
2265:	2.	0.	1.	0.	0.	2.	1.	2.	0.
2274:	2.	1.	1.	0.	1.	1.	0.	0.	1.
2283:	0.	2.	1.	1.	0.	1.	0.	0.	0.
2292:	0.	0.	2.	0.	0.	1.	2.	1.	0.
2301:	1.	1.	1.	0.	2.	0.	0.	0.	0.
2310:	1.	1.	0.	1.	0.	3.	0.	0.	0.
2319:	0.	0.	0.	0.	1.	2.	0.	0.	0.
2328:	2.	2.	3.	6.	5.	5.	4.	4.	0.
2337:	1.	1.	0.	2.	0.	3.	1.	1.	0.
2346:	3.	1.	0.	5.	2.	0.	0.	0.	0.
2355:	0.	2.	1.	0.	0.	2.	0.	2.	0.
2364:	0.	0.	2.	1.	1.	0.	0.	1.	2.

% ANTIMONY

0.0000

% ARSENIC

0.0000

(TI)TITLE:
 30427060 KB
 (IN)LIBRARY: D .RESULT
 (SA)SAMPLE TIME: 18 MAY 83 09:03:00
 (SE)STD ENERGY TOLERANCE: 2.00
 (UL)UNK ENERGY TOLERANCE: 2.00
 (TF)THERMAL FLUX: 0.0000E-01
 (LF)CPI THERMAL FLUX: 0.0000E-01
 (FF)FAST FLUX: 0.0000E-01
 (QU)UNITS: UG

	ELEMENT	ENERGY	HALF-LIFE	SEC
1	% COPPER	511.00	1.2800E 01 H	4.6080E 04
2	%-ANTIMONY	564.09	2.7200E 00 D	2.3501E 05
3	% ARSENIC	559.30	2.6300E 01 H	9.4680E 04

STANDARD SAMPLES

	NAME	MASS	FILE	POWER	ACT TIME
1	S604A	11567.00 F2	.A35	100.0	100000.0
2	S604B	12421.00 F2	.A36	100.0	100000.0
3	S604C	11662.00 F2	.A37	100.0	100000.0
4	S626A	12372.00 F2	.A38	100.0	100000.0
5	S626B	12647.00 F2	.A39	100.0	100000.0
6	S626C	12474.00 F2	.A40	100.0	100000.0

STD: 1 S604A FILE= F2 .A35

	ELEMENT	ENERGY	CONC	ERROR
1	%-COPPER	511.00	0.0000E-01	0.0000E-01
2	%-ANTIMONY	564.09	0.0000E-01	0.0000E-01
3	% ARSENIC	559.30	1.0000E-01	0.0000E-01

STD: 2 S604B FILE= F2 .A36

	ELEMENT	ENERGY	CONC	ERROR
1	%-COPPER	511.00	0.0000E-01	0.0000E-01
2	%-ANTIMONY	564.09	0.0000E-01	0.0000E-01
3	%-ARSENIC	559.30	1.0000E-01	0.0000E-01

STD: 3 S604C FILE= F2 .A37

	ELEMENT	ENERGY	CONC	ERROR
1	%-COPPER	511.00	0.0000E-01	0.0000E-01
2	%-ANTIMONY	564.09	0.0000E-01	0.0000E-01
3	%-ARSENIC	559.30	1.0000E-01	0.0000E-01

STD: 4 S626A FILE= F2 .A38

	ELEMENT	ENERGY	CONC	ERROR
1	%-COPPER	511.00	7.8000E-02	0.0000E-01
2	%-ANTIMONY	564.09	7.2000E-01	0.0000E-01
3	%-ARSENIC	559.30	0.0000E-01	0.0000E-01

	ELEMENT	ENERGY	CONC	ERROR
1	%-COPPER	511.00	7.8000E-02	0.0000E-01
2	%-ANTIMONY	564.09	7.2000E-01	0.0000E-01
3	%-ARSENIC	559.30	0.0000E-01	0.0000E-01

STD: 6 S626C

FILE= F2 .A40

	ELEMENT	ENERGY	CONC	ERROR
1	%-COPPER	511.00	7.8000E-02	0.0000E-01
2	%-ANTIMONY	564.09	7.2000E-01	0.0000E-01
3	%-ARSENIC	559.30	0.0000E-01	0.0000E-01

UNKNOWN SAMPLES

	NAME	MASS	FILE	POWER	ACT TIME
1	HG1	12000.00 F2	.A01	100.0	100000.0
2	Q1D	10253.00 F2	.A02	100.0	100000.0
3	Q1E	12618.00 F2	.A03	100.0	100000.0
4	Q1F	11322.00 F2	.A04	100.0	100000.0
5	K16A	12413.00 F2	.A05	100.0	100000.0
6	K16B	12355.00 F2	.A06	100.0	100000.0
7	K16C	13003.00 F2	.A07	100.0	100000.0
8	K17A	13073.00 F2	.A08	100.0	100000.0
9	K17B	12498.00 F2	.A09	100.0	100000.0
10	K17C	12620.00 F2	.A10	100.0	100000.0
11	K18A	12865.00 F2	.A11	100.0	100000.0
12	K18B	12675.00 F2	.A12	100.0	100000.0
13	K18C	12553.00 F2	.A13	100.0	100000.0
14	K19A	12681.00 F2	.A14	100.0	100000.0
15	K19B	12442.00 F2	.A15	100.0	100000.0
16	K19C	12795.00 F2	.A16	100.0	100000.0
17	K20A	13095.00 F2	.A17	100.0	100000.0
18	K20B	13039.00 F2	.A18	100.0	100000.0
19	K20C	12575.00 F2	.A19	100.0	100000.0
20	K21A	12592.00 F2	.A20	100.0	100000.0
21	K21B	12918.00 F2	.A21	100.0	100000.0
22	K21C	12511.00 F2	.A22	100.0	100000.0
23	K22A	12843.00 F2	.A23	100.0	100000.0
24	K22B	13049.00 F2	.A24	100.0	100000.0
25	K22C	12184.00 F2	.A25	100.0	100000.0
26	K23A	12218.00 F2	.A26	100.0	100000.0
27	K23B	12863.00 F2	.A27	100.0	100000.0
28	K23C	13768.00 F2	.A28	100.0	100000.0
29	K24A	12359.00 F2	.A29	100.0	100000.0
30	K24B	13424.00 F2	.A30	100.0	100000.0
31	K24C	12320.00 F2	.A31	100.0	100000.0
32	K25A	12636.00 F2	.A32	100.0	100000.0
33	K25B	12750.00 F2	.A33	100.0	100000.0
34	K25C	12825.00 F2	.A34	100.0	100000.0
35	S604A	11567.00 F2	.A35	100.0	100000.0
36	S604B	12421.00 F2	.A36	100.0	100000.0
37	S604C	11662.00 F2	.A37	100.0	100000.0
38	S626A	12372.00 F2	.A38	100.0	100000.0
39	S626B	12647.00 F2	.A39	100.0	100000.0
40	S626C	12474.00 F2	.A40	100.0	100000.0
41	BLANK	12000.00 F2	.A41	100.0	100000.0
42	HG2	12000.00 F2	.A42	100.0	100000.0

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

19 MAY-83 07:55:01

S604A

30427060 KB

SAMPLE WEIGHT: (UG) 11567.00
 ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN RT4
 ACQUIRE DATE: 18-MAY-83 23:21:00 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:05:55
 ELAPSED REAL TIME: 910. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

STANDARD REPORT:

ELEMENT	ENERGY	AREA	CONCENTR.	ERROR (1 SIGMA)	CONSTANT	ERROR (1 SIGMA)
% COPPER	511.0	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E-01
% ANTIMONY	564.1	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E-01
% ARSENIC	559.3	3305.	1.0000E-01	0.0000E-01	4.6424E-03	8.5298E-05

FELT LABORATORY WASHINGTON DC
LEAD ANALYSIS
19 MAY 83 07:55:44

5604B

30427060 RB

SAMPLE WEIGHT: (UG) 12421.00
ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN RT4
ACQUIRE DATE: 18-MAY-83 23:36:22 GEM 13
PRESH LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
ELAPSED REAL TIME: 910. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

STANDARD REPORT:

ELLMNT	ENERGY	AREA	CONCENTR.	ERROR (1 SIGMA)	CONSTANT	ERROR (1 SIGMA)
%-COPPER	511.0	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E-01
%-ANTIMONY	564.1	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E-01
%-ARSENIC	559.3	3297.	1.0000E-01	0.0000E-01	4.3420E-03	8.0078E-05

FEDERAL BUREAU OF INVESTIGATION
 LEAD ANALYSIS
 19-MAY-83 07:56:27

54041:

30427060 RE

SAMPLE WEIGHT: (UG) 11662.00
 ACTIVATION: 18-MAY-83 09:03:00 NEG 10 MIN RT4
 ACQUIRE DATE: 18-MAY-83 23:51:44 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
 ELAPSED REAL TIME: 910. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

STANDARD REPORT:

ELF MLNT	ENLRCY	AREA	CONCENTR.	ERROR (1 SIGMA)	CONSTANT	ERROR (1 SIGMA)
% COPPER	511.0	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E-01
%-ANTIMONY	564.1	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E-01
%-ARSENIC	509.3	3039.	1.0000E-01	0.0000E-01	4.2926E-03	8.2948E-05

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
19 MAY 83 07:57:10

5426A

3042/060 RE

SAMPLE WEIGHT: (UG) 12372.00
ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN RT4
ACQUIRE DATE: 19-MAY-83 00:07:06 GEM 13
PRESERVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
ELAPSED REAL TIME: 905. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0276080 KEV

STANDARD REPORT:

ELI MI NT	ENERGY	AREA	CONCENTR.	ERROR (1 SIGMA)	CONSTANT	ERROR (1 SIGMA)
%-COPPER	511.0	3299.	7.8000E-02	0.0000E-01	8.6469E-03	1.5579E-04
%-ANTIMONY	564.1	15505.	7.2000E-01	0.0000E-01	2.2726E-03	1.8329E-05
%-ARSENIC	559.3	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E 01

FELI LABORATORY WASHINGTON DC

LEAD ANALYSIS

19-MAY-83 07:57:54

5626E

30427060 KB

SAMPLE WEIGHT: (UG) 12647.00
ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN RT4
ACQUIRE DATE: 19-MAY-83 00:22:24 GEM 13
PRESET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
ELAPSED REAL TIME: 904. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

STANDARD REPORT:

ELI MLNT	ENERGY	AREA	CONCENTR.	ERROR (1 SIGMA)	CONSTANT	ERROR (1 SIGMA)
%-COPPER	511.0	3256.	7.8000E-02	0.0000E-01	8.4653E-03	1.5379E-04
%-ANTIMONY	564.1	15732.	7.2000E-01	0.0000E-01	2.2617E-03	1.8128E-05
%-ARSENIC	559.3	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E 01

PHYSICS LABORATORY WASHINGTON DC

LEAD ANALYSIS

19 MAY-83 07:58:37

5624C

30427060 RE

SAMPLE WLIGHT: (UG) 12474.00

ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN RT4

ACQUIRE DATE: 19-MAY-83 00:37:42 GEM 13

PRESET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55

ELAPSED REAL TIME: 905. SEC KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KLV

STANDARD REPORT:

ELEMENT	ENERGY	AREA	CONCENTR.	ERROR (1 SIGMA)	CONSTANT	ERROR (1 SIGMA)
%-COPPER	511.0	3113.	7.8000E-02	0.0000E-01	8.3196E-03	1.5442E-04
%-ANTIMONY	564.1	15791.	7.2000E-01	0.0000E-01	2.3080E-03	1.8441E-05
%-ARSENIC	559.3	0.	0.0000E-01	0.0000E-01	0.0000E-01	0.0000E-01

SUMMARY OF STANDARD CONSTANTS:

1. ELEMENT Z-COPPER AT 511.00 KEV

STANDARD NAME	CONCENTR.	CONSTANT	ERROR (1 SIGMA)
S626A	7.8000E-02	8.6469E-03	1.5579E-04
S626B	7.8000E-02	8.4653E-03	1.5379E-04
S626C	7.8000E-02	8.3196E-03	1.5442E-04

MEAN CONSTANT, 3 STDS:		8.4762E-03	8.9294E-05

2. ELEMENT Z-ANTIMONY AT 564.09 KEV

STANDARD NAME	CONCENTR.	CONSTANT	ERROR (1 SIGMA)
S626A	7.2000E-01	2.2726E-03	1.8329E-05
S626B	7.2000E-01	2.2617E-03	1.8128E-05
S626C	7.2000E-01	2.3080E-03	1.8441E-05

MEAN CONSTANT, 3 STDS:		2.2805E-03	1.0564E-05

3. ELEMENT Z-ARSENIC AT 559.30 KEV

STANDARD NAME	CONCENTR.	CONSTANT	ERROR (1 SIGMA)
S604A	1.0000E-01	4.6424E-03	8.5298E-05
S604B	1.0000E-01	4.3420E-03	8.0878E-05
S604C	1.0000E-01	4.2926E-03	8.2948E-05

MEAN CONSTANT, 3 STDS:		4.4203E-03	4.7910E-05

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

19-MAY-83 07:59:33

BC1

30427060 RE

SAMPLE WEIGHT: (UG) 12000.00
 ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN RT4
 ACQUIRE DATE: 18-MAY-83 14:38:36 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
 ELAPSED REAL TIME: 900. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

ELI MENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	14.	27.	3.9926E-04	1.1068E-04	27.7
%-ANTIMONY	564.1	18.	0.	0.0000E-01	NOT DETECTABLE	
%-ARSENIC	559.3	9.	3.	7.1953E-05	1.1149E-04	154.9
			CU	SE	AS	
CNIS/UG/MIN AT RD			50.9	13.7	26.52	
CENTROID CHANNEL			2042	2258	2237	
HALF-LIFE			12.8 H	2.7 D	26.3 H	
BACKGROUND SPACING			50 L&R	80 L&R	30 L	CH 2246 R
BACKGROUND CHANNELS			22 L&R	22 L&R	11 L	1 R
PEAK CHANNELS			13	13	5	

1980:	1.	2.	0.	1.	1.	2.	1.	1.	1.
1997:	0.	2.	1.	1.	1.	1.	2.	1.	1.
2006:	0.	3.	3.	2.	1.	0.	0.	1.	4.
2015:	0.	0.	0.	1.	1.	1.	0.	1.	1.
2024:	3.	3.	3.	1.	1.	3.	1.	2.	3.
2033:	1.	2.	3.	2.	3.	4.	3.	2.	2.
2042:	4.	4.	3.	4.	4.	3.	3.	1.	2.
2051:	2.	0.	1.	1.	2.	1.	0.	0.	4.
2060:	1.	0.	2.	1.	1.	1.	0.	3.	2.
2069:	2.	1.	1.	0.	0.	1.	1.	0.	1.
2078:	0.	2.	1.	1.	1.	4.	3.	0.	2.
2087:	2.	0.	4.	0.	0.	1.	2.	0.	3.
2096:	0.	1.	0.	0.	1.	0.	1.	1.	2.
2105:	0.	3.	1.	1.	1.	0.	3.	0.	0.

% COPPER

0.0004

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
19-MAY-83 08:00:01

EG1

30427060 KB

SAMPLE WEIGHT: (UG) 12000.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN RT4

ACQUIRE DATE: 18-MAY-83 14:38:36

GEM 13

FRESH LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

ELAPSED REAL TIME: 900. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVL TIME: 900. SEC

OFFSET: -0.0226080 KEV

2130:	1.	0.	2.	0.	2.	3.	1.	0.	0.
2139:	1.	1.	0.	0.	0.	0.	1.	1.	2.
2148:	1.	0.	3.	2.	0.	1.	0.	4.	2.
2157:	1.	1.	1.	0.	0.	1.	1.	0.	2.
2166:	3.	0.	0.	0.	1.	0.	1.	0.	1.
2175:	2.	0.	1.	1.	0.	0.	1.	1.	2.
2184:	1.	3.	1.	0.	0.	0.	2.	2.	2.
2193:	1.	0.	0.	1.	0.	1.	1.	1.	2.
2202:	3.	0.	1.	0.	1.	2.	0.	0.	0.
2211:	1.	1.	1.	3.	2.	0.	2.	1.	0.
2220:	1.	0.	1.	1.	2.	1.	0.	0.	1.
2229:	0.	0.	2.	0.	0.	1.	2.	0.	2.
2238:	0.	1.	2.	1.	1.	0.	1.	2.	0.
2247:	2.	2.	1.	0.	2.	3.	1.	0.	0.
2256:	0.	0.	2.	1.	2.	0.	2.	2.	2.
2265:	0.	2.	1.	0.	1.	1.	0.	0.	0.
2274:	1.	2.	1.	3.	1.	0.	1.	1.	1.
2283:	2.	0.	0.	1.	0.	1.	1.	1.	1.
2292:	2.	1.	2.	1.	0.	0.	1.	0.	2.
2301:	0.	1.	0.	0.	0.	1.	1.	0.	3.
2310:	0.	0.	0.	3.	0.	0.	0.	2.	0.
2319:	0.	1.	0.	1.	0.	2.	0.	1.	0.
2328:	1.	2.	4.	4.	6.	7.	4.	4.	1.
2337:	1.	1.	0.	0.	1.	2.	1.	0.	1.
2346:	1.	1.	1.	3.	0.	0.	0.	0.	0.
2355:	1.	1.	0.	0.	0.	0.	1.	4.	2.
2364:	0.	0.	1.	2.	0.	0.	0.	1.	1.

% ANTIMONY 0.0000

% ARSENIC 0.0001

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

19 MAY-83 08:01:08

Q1D

30427060 KB

SAMPLE WEIGHT: (UG) 10253.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN R14

ACQUIRE DATE: 18-MAY-83 14:53:50

GEM 13

PRESLT LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

ELAPSED REAL TIME: 920. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	533.	2203.	0.0389	0.0011	2.8
%-ANTIMONY	564.1	292.	83732.	4.2395	0.0245	0.6
%-ARSENIC	559.3	417.	2631.	0.0755	0.0019	2.5
			CU	SE	AS	
CNTS/UG/MIN AT RD			50.9	13.7	26.52	
CENTROID CHANNEL			2045	2256	2237	
HAFT LTL			12.8 H	2.7 D	26.3 H	
BACKGROUND SPACING			50 L&R	80 L&R	30 L CH 2244 R	
BACKGROUND CHANNELS			27 L&R	22 L&R	11 L 1 R	
PEAK CHANNELS			13	13	5	

1980:	42.	40.	43.	42.	46.	50.	51.	41.	27.
1997:	43.	51.	34.	47.	39.	41.	50.	47.	40.
2006:	50.	46.	40.	57.	50.	42.	53.	42.	43.
2015:	51.	45.	37.	44.	39.	41.	34.	35.	48.
2024:	37.	49.	33.	35.	49.	49.	56.	59.	56.
2033:	57.	43.	62.	79.	103.	99.	158.	202.	211.
2042:	263.	265.	280.	293.	247.	220.	205.	171.	117.
2051:	104.	92.	58.	56.	58.	51.	42.	40.	34.
2060:	48.	42.	47.	32.	35.	34.	41.	48.	40.
2069:	36.	35.	36.	35.	42.	38.	37.	29.	43.
2078:	50.	32.	45.	46.	38.	33.	32.	42.	32.
2087:	38.	33.	32.	46.	41.	35.	37.	41.	44.
2096:	34.	34.	41.	43.	31.	25.	35.	30.	35.
2105:	39.	33.	24.	31.	30.	37.	43.	36.	49.

% COPPER

0.0389

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

19-MAY-83 08:01:37

Q11)

30427060 KB

SAMPLE WEIGHT: (UG) 10253.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN RT4

ACQUIRE DATE: 18-MAY-83 14:53:50

GEM 13

FRESH LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

ELAPSED REAL TIME: 920. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

2130:	32.	33.	32.	34.	32.	27.	29.	39.	37.
2139:	35.	31.	30.	29.	32.	26.	43.	28.	41.
2148:	39.	30.	38.	32.	38.	32.	41.	36.	37.
2157:	33.	34.	30.	24.	29.	31.	30.	29.	34.
2166:	41.	31.	39.	33.	33.	34.	36.	33.	29.
2175:	32.	36.	35.	36.	28.	33.	27.	44.	34.
2184:	25.	24.	38.	28.	31.	45.	26.	40.	39.
2193:	31.	29.	21.	26.	23.	35.	41.	31.	33.
2202:	41.	33.	31.	42.	41.	33.	31.	48.	36.
2211:	47.	34.	53.	35.	49.	51.	39.	53.	45.
2220:	43.	39.	42.	52.	47.	61.	46.	46.	51.
2229:	77.	73.	90.	143.	251.	352.	566.	697.	679.
2238:	583.	453.	320.	169.	127.	105.	101.	121.	130.
2247:	147.	188.	318.	531.	1020.	2287.	4653.	7853.	11456.
2256:	13918.	13991.	17082.	8228.	4710.	2326.	969.	298.	88.
2265:	36.	14.	17.	14.	14.	11.	12.	8.	19.
2274:	12.	14.	9.	11.	12.	10.	18.	7.	19.
2283:	9.	11.	12.	19.	14.	10.	17.	13.	12.
2292:	10.	14.	4.	12.	7.	11.	12.	9.	14.
2301:	12.	10.	11.	8.	6.	11.	18.	10.	8.
2310:	11.	14.	8.	6.	2.	10.	12.	17.	12.
2319:	8.	5.	15.	10.	11.	7.	7.	17.	13.
2328:	11.	13.	12.	14.	13.	13.	13.	14.	11.
2337:	12.	13.	14.	9.	9.	16.	7.	14.	8.
2346:	7.	8.	8.	9.	11.	10.	6.	8.	10.
2355:	13.	12.	6.	13.	9.	11.	6.	10.	6.
2364:	7.	8.	8.	9.	10.	9.	6.	8.	12.

% ANTIMONY

4.2395

% ARSENIC

0.0755

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

19-MAY-83 08:02:44

Q1E

30427060 KB

SAMPLE WEIGHT: (UG) 12618.00
 ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN RT4
 ACQUIRE DATE: 18-MAY-83 15:09:24 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:05:55
 ELAPSED REAL TIME: 924. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	606.	7564.	0.0373	0.0010	2.6
%-ANTIMONY	564.1	347.	102214.	4.2169	0.0236	0.6
%-ARSENIC	559.3	493.	3153.	0.0740	0.0017	2.3

	CU	SB	AS
CNIS/UG/MIN AT RD	50.9	13.7	26.52
CENTROID CHANNEL	2045	2256	2237
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2244 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	51.	54.	46.	60.	54.	51.	53.	50.	53.
1997:	54.	52.	61.	35.	51.	56.	50.	54.	55.
2006:	65.	59.	49.	53.	61.	48.	49.	48.	38.
2015:	47.	46.	44.	56.	50.	58.	46.	51.	60.
2024:	58.	53.	56.	53.	50.	47.	42.	46.	70.
2033:	61.	78.	96.	103.	102.	126.	196.	208.	286.
2042:	289.	345.	304.	305.	291.	264.	239.	162.	147.
2051:	134.	108.	64.	78.	55.	55.	58.	53.	57.
2060:	45.	49.	57.	53.	45.	48.	49.	50.	51.
2069:	23.	47.	40.	48.	37.	34.	55.	51.	47.
2078:	41.	43.	47.	41.	49.	54.	56.	50.	52.
2087:	47.	40.	42.	48.	44.	41.	42.	38.	42.
2096:	45.	38.	38.	43.	38.	46.	46.	42.	42.
2105:	40.	49.	49.	53.	48.	41.	49.	44.	40.

% COPPER

0.0373

LEAD ANALYSIS

19-MAY-83 08:03:13

QLE

30427060 RE

SAMPLE WEIGHT: (UG) 12618.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN RT4

ACQUIRE DATE: 18-MAY-83 15:09:24

GEM 13

PREFILTER TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

ELAPSED REAL TIME: 924. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

2130:	42.	45.	40.	61.	42.	33.	40.	41.	49.
2139:	57.	35.	49.	38.	44.	50.	26.	37.	47.
2148:	39.	45.	37.	39.	32.	51.	43.	32.	50.
2157:	62.	48.	51.	35.	46.	46.	36.	30.	34.
2166:	37.	29.	40.	35.	47.	42.	42.	50.	34.
2175:	43.	38.	41.	37.	41.	35.	29.	30.	40.
2184:	40.	53.	35.	46.	42.	48.	33.	41.	36.
2193:	49.	42.	44.	44.	44.	43.	45.	41.	46.
2202:	51.	52.	37.	50.	43.	49.	39.	41.	42.
2211:	44.	45.	38.	53.	52.	47.	47.	52.	49.
2220:	53.	43.	52.	52.	45.	62.	62.	56.	58.
2229:	84.	86.	122.	178.	291.	496.	667.	816.	870.
2238:	702.	538.	369.	202.	158.	138.	131.	154.	163.
2247:	208.	238.	352.	626.	1322.	2829.	5683.	9620.	14170.
2256:	17240.	17261.	14501.	9934.	5585.	2731.	1059.	411.	102.
2265:	48.	17.	31.	20.	14.	18.	12.	16.	19.
2274:	24.	23.	13.	9.	22.	12.	17.	18.	11.
2283:	14.	16.	21.	17.	14.	20.	16.	23.	16.
2292:	7.	10.	12.	13.	13.	24.	10.	20.	15.
2301:	7.	15.	16.	13.	11.	11.	19.	13.	9.
2310:	16.	9.	14.	13.	10.	11.	13.	13.	5.
2319:	11.	17.	13.	14.	10.	21.	9.	14.	14.
2328:	8.	12.	5.	20.	16.	17.	19.	8.	15.
2337:	13.	7.	14.	10.	16.	19.	13.	8.	19.
2346:	10.	9.	8.	10.	6.	15.	20.	15.	7.
2355:	11.	14.	11.	12.	10.	14.	11.	14.	9.
2364:	12.	9.	12.	10.	11.	16.	10.	13.	14.

% ANTIMONY

4.2169

% ARSENIC

0.0740

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
19-MAY-83 08:04:20

Q1F

3042/060 RE

SAMPLE WEIGHT: (UG) 11322.00
ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN RT4
ACQUIRE DATE: 18-MAY-83 15:25:03 GEM 13
PRESAMPLE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
ELAPSED REAL TIME: 921. SEC KEV/CHNL: 0.2500463
ELAPSED LIVL TIME: 900. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGD	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COOPER	511.0	544.	2450.	0.0403	0.0011	2.6
%-ANTIMONY	564.1	347.	92065.	4.2447	0.0242	0.6
%-ARSENIC	559.3	451.	2855.	0.0752	0.0018	2.4
			CU	SB	AS	
CNIS/UG/MIN AT RD			50.9	13.7	26.52	
CENTROID CHANNEL			2044	2256	2237	
HALF LIFE			12.8 H	2.7 D	26.3 H	
BACKGROUND SPACING			50 L&R	80 L&R	30 L CH 2245 R	
BACKGROUND CHANNELS			22 L&R	22 L&R	11 L J R	
PEAK CHANNELS			13	13	5	

1988:	53.	53.	39.	52.	48.	48.	43.	57.	40.
1997:	43.	44.	33.	56.	46.	40.	39.	49.	55.
2006:	41.	57.	40.	40.	51.	48.	42.	56.	53.
2015:	48.	42.	50.	41.	26.	30.	42.	51.	41.
2024:	44.	49.	50.	38.	47.	51.	51.	57.	50.
2033:	61.	72.	69.	98.	111.	122.	187.	207.	247.
2042:	278.	270.	292.	300.	277.	246.	217.	210.	141.
2051:	107.	80.	65.	74.	60.	68.	48.	50.	43.
2060:	43.	45.	47.	34.	41.	35.	36.	27.	45.
2069:	42.	38.	38.	47.	46.	36.	35.	44.	37.
2078:	38.	40.	44.	42.	48.	53.	39.	39.	43.
2087:	33.	46.	40.	28.	38.	50.	35.	37.	35.
2096:	39.	35.	45.	38.	39.	40.	37.	44.	48.
2105:	42.	48.	35.	35.	39.	44.	42.	38.	36.

% COOPER 0.0403

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
19-MAY-83 08:04:49

Q1F

3042/060 KB

SAMPLE WEIGHT: (UG) 11322.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN RT4

ACQUIRE DATE: 18-MAY-83 15:25:03

GLM 13

PRESET LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:05:55

ELAPSED REAL TIME: 921. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

2130:	31.	30.	52.	45.	39.	26.	32.	38.	28.
2139:	35.	46.	29.	32.	37.	37.	42.	35.	46.
2148:	35.	41.	34.	25.	38.	43.	41.	31.	47.
2157:	34.	33.	30.	39.	42.	47.	32.	40.	46.
2166:	32.	34.	46.	26.	28.	45.	36.	50.	36.
2175:	32.	39.	31.	46.	36.	44.	44.	31.	36.
2184:	49.	38.	47.	43.	39.	33.	37.	35.	32.
2193:	41.	54.	25.	42.	39.	43.	46.	53.	49.
2202:	37.	31.	36.	32.	46.	46.	43.	49.	39.
2211:	50.	42.	43.	41.	47.	46.	50.	46.	47.
2220:	50.	56.	41.	47.	48.	48.	54.	52.	60.
2229:	71.	74.	95.	168.	232.	416.	597.	737.	787.
2238:	653.	471.	316.	191.	144.	126.	116.	115.	151.
2247:	180.	198.	333.	592.	1277.	2570.	5068.	8616.	12870.
2256:	15253.	15830.	12801.	9115.	5061.	2397.	962.	344.	108.
2265:	30.	32.	15.	16.	15.	13.	19.	8.	18.
2274:	12.	19.	16.	10.	13.	17.	15.	20.	8.
2283:	10.	15.	19.	17.	20.	15.	12.	14.	6.
2292:	11.	12.	12.	9.	11.	9.	6.	9.	13.
2301:	10.	9.	11.	14.	9.	16.	12.	8.	13.
2310:	12.	14.	6.	7.	13.	10.	11.	10.	8.
2319:	10.	11.	7.	11.	9.	17.	9.	7.	11.
2328:	8.	18.	20.	15.	17.	19.	22.	11.	14.
2337:	14.	14.	9.	8.	6.	10.	10.	12.	13.
2346:	11.	12.	7.	15.	5.	9.	15.	11.	6.
2355:	10.	17.	8.	11.	7.	13.	8.	12.	6.
2364:	10.	7.	11.	10.	13.	9.	6.	13.	10.

% ANTIMONY

4.2447

% ARSENIC

0.0752

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
19-MAY-83 08:05:56

K16A

30427060 RB

SAMPLE WEIGHT: (UG) 12413.00
ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN RT4
ACQUIRE DATE: 18-MAY-83 15:40:37 GEM 13
PREFLIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
ELAPSED REAL TIME: 908. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	PKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
Z-COPPER	511.0	215.	657.	0.0100	0.0005	5.1
Z-ANTIMONY	564.1	128.	32503.	1.3706	0.0099	0.7
Z-ARSENIC	559.3	134.	371.	0.0090	0.0006	6.9

	CU	SB	AS
CNTS/UG/MIN AT RD	50.9	13.7	26.52
CENTROID CHANNEL	2044	2256	2237
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2242 R
BACKGROUND CHANNELS	27 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	23.	19.	21.	16.	16.	23.	16.	10.	17.
1997:	14.	17.	19.	16.	14.	19.	16.	14.	17.
2006:	15.	23.	28.	20.	26.	21.	18.	17.	15.
2015:	15.	28.	18.	23.	20.	21.	14.	12.	14.
2024:	17.	18.	14.	11.	14.	18.	14.	11.	20.
2033:	22.	28.	26.	35.	33.	45.	43.	68.	69.
2042:	79.	88.	80.	78.	80.	83.	62.	56.	41.
2051:	27.	30.	26.	17.	18.	15.	14.	17.	13.
2060:	16.	13.	13.	21.	18.	12.	13.	16.	12.
2069:	22.	22.	13.	20.	23.	16.	11.	10.	12.
2078:	15.	9.	11.	14.	9.	12.	16.	17.	15.
2087:	12.	15.	11.	17.	15.	14.	18.	18.	19.
2096:	13.	15.	21.	15.	16.	12.	17.	17.	12.
2105:	11.	21.	12.	12.	20.	15.	16.	13.	10.

% COPPER

0.0100

FEL LABORATORY WASHINGTON DC
LEAD ANALYSIS
19-MAY-83 08:06:24

K16A

3042/060 KB

SAMPLE WEIGHT: (UG) 12413.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN R14

ACQUIRE DATE: 18-MAY-83 15:40:37

GEM 13

PRESET LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

ELAPSED REAL TIME: 908. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

2130:	9.	10.	15.	15.	16.	16.	11.	10.	13.
2139:	12.	13.	8.	10.	8.	17.	10.	12.	10.
2148:	13.	11.	23.	18.	14.	7.	12.	11.	8.
2157:	14.	11.	13.	9.	12.	11.	13.	11.	12.
2166:	10.	14.	14.	7.	12.	14.	10.	19.	13.
2175:	8.	13.	14.	13.	20.	23.	17.	17.	14.
2184:	14.	14.	17.	13.	11.	14.	17.	12.	11.
2193:	22.	14.	21.	13.	13.	11.	16.	14.	16.
2202:	14.	15.	13.	9.	8.	13.	18.	17.	9.
2211:	12.	6.	12.	15.	25.	19.	16.	24.	15.
2220:	12.	14.	9.	11.	12.	18.	14.	25.	18.
2229:	23.	22.	25.	23.	59.	70.	81.	102.	129.
2238:	98.	81.	61.	49.	36.	43.	52.	39.	42.
2247:	46.	90.	96.	201.	409.	889.	1694.	3058.	4554.
2256:	5361.	5556.	4771.	3063.	1885.	836.	304.	119.	33.
2265:	15.	6.	5.	5.	6.	3.	5.	2.	5.
2274:	2.	6.	3.	7.	4.	3.	5.	2.	5.
2283:	4.	5.	3.	2.	5.	8.	4.	2.	4.
2292:	3.	7.	2.	4.	4.	2.	5.	3.	4.
2301:	4.	5.	5.	1.	1.	5.	6.	4.	2.
2310:	6.	1.	0.	4.	6.	3.	7.	3.	6.
2319:	2.	6.	5.	4.	4.	3.	6.	1.	0.
2328:	5.	6.	4.	4.	4.	10.	8.	6.	2.
2337:	2.	6.	1.	3.	7.	2.	9.	1.	3.
2346:	3.	7.	4.	3.	3.	1.	6.	3.	3.
2355:	3.	5.	2.	2.	7.	5.	3.	4.	4.
2364:	4.	6.	3.	6.	6.	2.	5.	9.	3.

% ANTIMONY

1.3706

% ARSENIC

0.0090

FELT LABORATORY WASHINGTON DC

LEAD ANALYSIS

19-MAY-83 08:07:31

K16F:

30427060 KB

SAMPLE WEIGHT: (UG) 12355.00

ACTIVATION: 18-MAY-83 09:03:00

NEG 10 MIN RT4

ACQUIRE DATE: 18-MAY-83 15:55:59

GEM 13

PREFI LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:05:55

ELAPSED REAL TIME: 908. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGD	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	192.	709.	0.0110	0.0005	4.8
%-ANTIMONY	564.1	129.	32792.	1.3930	0.0101	0.7
%-ARSENIC	559.3	159.	331.	0.0081	0.0006	7.8

	CU	SB	AS
CNTS/UG/MIN AT RD	50.9	13.7	26.52
CENTROID CHANNEL	2045	2256	2237
HAIF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2246 R
BACKGROUND CHANNELS	27 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1980:	15.	18.	9.	17.	21.	15.	19.	16.	16.
1997:	17.	14.	16.	17.	25.	15.	15.	21.	16.
2006:	10.	26.	19.	14.	21.	23.	17.	33.	16.
2015:	14.	21.	13.	15.	15.	20.	17.	22.	19.
2024:	14.	19.	17.	18.	20.	15.	14.	21.	12.
2033:	14.	16.	30.	32.	29.	40.	47.	75.	53.
2042:	99.	84.	92.	87.	84.	72.	49.	71.	38.
2051:	50.	24.	17.	16.	15.	13.	14.	11.	17.
2060:	14.	16.	14.	14.	17.	15.	13.	15.	15.
2069:	17.	8.	11.	21.	24.	13.	7.	16.	12.
2078:	17.	13.	8.	9.	11.	14.	15.	15.	6.
2087:	13.	9.	18.	12.	19.	12.	12.	10.	16.
2096:	16.	14.	12.	14.	14.	15.	16.	19.	22.
2105:	15.	11.	10.	13.	13.	12.	14.	16.	17.

% COPPER

0.0110

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

19-MAY-83 08:08:00

K161:

30427060 RE

SAMPLE WEIGHT: (UG) 12355.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN R14

ACQUIRE DATE: 18-MAY-83 15:55:59

GEM 13

PRESET LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

ELAPSED KFAI TIME: 908. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

2130:	8.	15.	7.	13.	16.	15.	16.	14.	18.
2139:	17.	10.	16.	12.	21.	10.	17.	17.	15.
2148:	14.	15.	15.	13.	18.	19.	12.	12.	11.
2157:	14.	9.	12.	13.	17.	20.	11.	11.	14.
2166:	13.	11.	11.	15.	10.	12.	6.	15.	13.
2175:	16.	14.	19.	15.	20.	14.	7.	18.	10.
2184:	13.	16.	13.	17.	15.	18.	12.	22.	12.
2193:	10.	20.	17.	11.	16.	8.	13.	13.	9.
2202:	15.	8.	15.	16.	11.	19.	15.	14.	15.
2211:	17.	14.	9.	14.	11.	13.	14.	13.	15.
2220:	14.	17.	16.	23.	14.	22.	20.	16.	18.
2229:	14.	24.	27.	39.	58.	77.	93.	98.	115.
2238:	88.	78.	75.	45.	44.	44.	49.	46.	42.
2247:	55.	61.	118.	194.	430.	887.	1809.	3135.	4509.
2256:	5437.	5508.	4714.	3271.	1787.	890.	350.	108.	32.
2265:	8.	9.	6.	5.	3.	4.	7.	5.	8.
2274:	4.	0.	9.	2.	2.	2.	7.	2.	4.
2283:	2.	5.	9.	2.	4.	3.	5.	3.	2.
2292:	4.	5.	2.	4.	4.	3.	5.	3.	2.
2301:	6.	1.	6.	2.	4.	2.	1.	3.	4.
2310:	8.	5.	0.	5.	2.	5.	5.	2.	4.
2319:	4.	4.	1.	3.	7.	7.	3.	3.	11.
2328:	5.	5.	3.	7.	9.	14.	6.	9.	5.
2337:	3.	3.	5.	2.	5.	2.	1.	5.	2.
2346:	4.	4.	1.	4.	1.	2.	2.	2.	5.
2355:	2.	1.	7.	3.	4.	4.	5.	1.	2.
2364:	4.	7.	4.	1.	3.	4.	9.	2.	3.

% ANTIMONY

1.3930

% ARSENIC

0.0081

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

19-MAY-83 08:09:07

K16C

30427060 RB

SAMPLE WEIGHT: (UG) 10003.00
 ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN RT4
 ACQUIRE DATE: 18-MAY-83 16:11:22 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
 ELAPSED REAL TIME: 908. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	PKND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	219.	645.	0.0096	0.0005	5.2
%-ANTIMONY	564.1	125.	33948.	1.3740	0.0098	0.7
%-ARSENIC	559.3	160.	419.	0.0098	0.0006	6.6
			CU	SE	AS	
CNTS/UG/MIN AT RD			50.9	13.7	26.52	
CENTROID CHANNEL			2044	2256	2237	
HAIF-LIFE			12.8 H	2.7 D	26.3 H	
BACKGROUND SPACING			50 L&R	80 L&R	30 L CH 2244 R	
BACKGROUND CHANNELS			22 L&R	22 L&R	11 L 1 R	
PEAK CHANNELS			13	13	5	

1980:	23.	22.	14.	21.	23.	18.	17.	18.	14.
1997:	23.	14.	14.	19.	23.	24.	19.	25.	23.
2006:	16.	15.	14.	18.	22.	26.	21.	20.	17.
2015:	15.	18.	13.	19.	21.	18.	15.	21.	16.
2024:	9.	22.	10.	16.	14.	16.	23.	14.	22.
2033:	22.	18.	28.	32.	37.	55.	45.	60.	71.
2042:	86.	75.	87.	89.	67.	66.	75.	51.	37.
2051:	22.	29.	15.	21.	12.	12.	13.	15.	12.
2060:	16.	21.	13.	13.	18.	19.	13.	21.	10.
2069:	18.	17.	12.	14.	20.	13.	22.	21.	15.
2078:	20.	22.	18.	11.	11.	20.	12.	14.	7.
2087:	16.	6.	18.	16.	10.	15.	18.	9.	15.
2096:	20.	18.	21.	13.	12.	9.	14.	15.	10.
2105:	10.	16.	15.	18.	10.	27.	12.	13.	9.

% COPPER 0.0096

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

19-MAY-83 08:09:36

KLAC:

3042/060 RE

SAMPLE WRIGHT: (UG) 13003.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN RT4

ACQIRIL DATE: 18-MAY-83 16:11:22

GEM 13

PRESLT LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

FLAPSED REAL TIME: 908. SEC

KEV/CHNL: 0.2500463

FLAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

2130:	19.	8.	11.	18.	11.	17.	21.	18.	14.
2139:	5.	17.	18.	13.	3.	10.	9.	8.	14.
2148:	7.	12.	18.	8.	13.	5.	17.	11.	15.
2157:	14.	17.	8.	15.	12.	10.	13.	14.	9.
2166:	13.	17.	17.	11.	15.	16.	13.	14.	12.
2175:	12.	12.	16.	15.	17.	10.	17.	10.	16.
2184:	9.	18.	13.	10.	8.	15.	11.	14.	13.
2193:	17.	13.	16.	12.	17.	19.	13.	17.	11.
2202:	14.	18.	15.	16.	13.	19.	12.	10.	18.
2211:	10.	15.	14.	16.	14.	17.	19.	20.	16.
2220:	20.	73.	18.	17.	19.	23.	11.	16.	16.
2229:	27.	26.	28.	38.	45.	69.	95.	121.	120.
2238:	124.	83.	66.	45.	39.	59.	35.	43.	42.
2247:	73.	66.	129.	210.	400.	880.	1875.	3277.	4711.
2256:	5747.	5739.	4910.	3318.	1855.	844.	357.	124.	33.
2265:	7.	9.	6.	4.	4.	5.	6.	3.	2.
2274:	6.	4.	3.	5.	5.	7.	4.	3.	1.
2283:	3.	8.	4.	2.	4.	3.	6.	2.	2.
2292:	6.	2.	1.	1.	3.	3.	3.	3.	6.
2301:	4.	5.	2.	5.	1.	7.	4.	5.	2.
2310:	2.	9.	2.	5.	2.	3.	2.	3.	4.
2319:	3.	4.	2.	4.	5.	4.	4.	3.	10.
2328:	3.	4.	5.	6.	8.	7.	4.	4.	11.
2337:	4.	2.	5.	7.	0.	6.	4.	3.	4.
2346:	4.	3.	2.	2.	3.	5.	7.	5.	3.
2355:	4.	3.	0.	6.	4.	3.	4.	2.	3.
2364:	3.	6.	2.	5.	1.	3.	3.	3.	4.

% ANTIMONY

1.3740

% ARSENIC

0.0098

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

19-MAY-83 08:10:43

K17A

30427060 KB

SAMPLE WEIGHT: (UG) 13073.00
 ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN RT4
 ACQUIRE DATE: 18-MAY-83 16:26:44 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
 ELAPSED REAL TIME: 908. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
Z-COPPER	511.0	211.	713.	0.0107	0.0005	4.8
Z-ANTIMONY	564.1	129.	33735.	1.3618	0.0098	0.7
Z-ARSENIC	559.3	138.	520.	0.0122	0.0007	5.5
			CU	SB	AS	
CNTS/UG/MIN AT RD			50.9	13.7	26.52	
CENTROID CHANNEL			2044	2256	2237	
HAFT LIFE			12.8 H	2.7 D	26.3 H	
BACKGROUND SPACING			50 L&R	80 L&R	30 L	CH 2244 R
BACKGROUND CHANNELS			22 L&R	22 L&R	11 L	J R
PEAK CHANNELS			13	13	5	

1988:	17.	10.	22.	16.	18.	17.	19.	21.	20.
1997:	22.	13.	23.	13.	20.	20.	22.	22.	21.
2006:	14.	20.	20.	21.	13.	22.	25.	12.	16.
2015:	12.	16.	25.	15.	18.	10.	12.	15.	18.
2024:	19.	17.	24.	20.	25.	10.	14.	12.	17.
2033:	18.	19.	36.	33.	33.	47.	56.	63.	73.
2042:	84.	97.	91.	114.	85.	68.	60.	39.	47.
2051:	29.	26.	29.	18.	25.	20.	17.	22.	18.
2060:	21.	10.	22.	14.	20.	17.	14.	11.	15.
2069:	15.	12.	10.	18.	10.	18.	14.	17.	21.
2078:	16.	14.	16.	21.	12.	12.	16.	9.	15.
2087:	14.	7.	16.	23.	11.	14.	13.	14.	9.
2096:	15.	12.	11.	18.	16.	11.	9.	15.	9.
2105:	18.	12.	17.	11.	16.	15.	18.	12.	21.

% COPPER 0.0107

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
19-MAY-83 08:11:11

K17A

3042/060 KB

SAMPLE WEIGHT: (UG) 13073.00
ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN RT4
ACQUIRE DATE: 18-MAY-83 16:26:44 GEM 13
PRESET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
FLAISED REAL TIME: 908. SEC KEV/CHNL: 0.2500463
FLAISED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

2130:	11.	18.	12.	15.	17.	19.	19.	22.	14.
2139:	15.	19.	14.	18.	11.	15.	10.	18.	13.
2148:	8.	8.	19.	13.	15.	9.	15.	13.	12.
2157:	13.	16.	13.	8.	9.	14.	21.	12.	18.
2166:	11.	16.	15.	11.	15.	14.	7.	12.	12.
2175:	16.	25.	11.	15.	13.	17.	19.	12.	11.
2184:	16.	14.	13.	12.	14.	15.	17.	15.	3.
2193:	17.	11.	16.	7.	15.	7.	13.	16.	15.
2202:	9.	8.	15.	16.	12.	4.	14.	18.	17.
2211:	10.	15.	15.	16.	23.	18.	12.	13.	12.
2220:	18.	20.	19.	19.	20.	12.	20.	17.	22.
2229:	25.	25.	31.	51.	66.	78.	116.	143.	126.
2238:	145.	96.	65.	50.	35.	34.	30.	50.	49.
2247:	56.	64.	89.	214.	434.	906.	1854.	3276.	4734.
2256:	5692.	5653.	4628.	3295.	1958.	869.	351.	120.	42.
2265:	11.	3.	8.	6.	5.	3.	7.	3.	4.
2274:	3.	5.	3.	9.	2.	6.	6.	3.	7.
2283:	3.	2.	5.	2.	5.	0.	5.	3.	6.
2292:	10.	4.	4.	4.	2.	4.	7.	8.	6.
2301:	7.	5.	3.	9.	3.	2.	3.	4.	6.
2310:	4.	4.	3.	6.	5.	4.	4.	1.	3.
2319:	3.	5.	6.	5.	6.	4.	5.	8.	6.
2328:	2.	2.	8.	7.	6.	10.	4.	8.	4.
2337:	2.	3.	4.	4.	5.	2.	5.	1.	3.
2346:	7.	5.	4.	5.	4.	4.	0.	2.	5.
2355:	5.	6.	4.	4.	2.	3.	4.	2.	4.
2364:	6.	4.	2.	2.	3.	0.	4.	2.	3.

% ANTIMONY

1.3618

% ARSENIC

0.0122

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
19-MAY-83 08:12:19

K17E

30427060 KB

SAMPLE WEIGHT: (UG) 12498.00
ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN RT4
ACQUIRE DATE: 18-MAY-83 16:42:06 GEM 13
PRESET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
ELAPSED REAL TIME: 908. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	PKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
Z-COPPER	511.0	195.	689.	0.0110	0.0005	4.9
Z-ANTIMONY	564.1	123.	32404.	1.3720	0.0099	0.7
Z-ARSENIC	559.3	171.	443.	0.0109	0.0007	6.4

	CU	SB	AS
CN15/UG/MIN AT RD	50.9	13.7	26.52
CENTROID CHANNEL	2044	2256	2236
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2242 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1980:	18.	20.	15.	15.	19.	16.	18.	23.	17.
1997:	14.	14.	23.	12.	23.	20.	13.	15.	21.
2006:	10.	20.	16.	16.	20.	21.	8.	16.	22.
2015:	14.	13.	21.	12.	23.	13.	13.	25.	17.
2024:	15.	15.	12.	21.	15.	22.	21.	14.	17.
2033:	20.	26.	16.	22.	24.	48.	59.	61.	59.
2042:	77.	77.	108.	79.	90.	71.	62.	57.	41.
2051:	31.	19.	32.	19.	23.	18.	17.	19.	21.
2060:	15.	12.	14.	12.	19.	14.	10.	9.	11.
2069:	14.	13.	9.	11.	14.	16.	11.	13.	8.
2078:	17.	8.	9.	7.	12.	19.	16.	15.	12.
2087:	12.	15.	9.	14.	14.	8.	13.	8.	13.
2096:	15.	16.	13.	13.	15.	15.	5.	9.	12.
2105:	23.	16.	15.	10.	13.	12.	12.	13.	8.

% COPPER

0.0110

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
19-MAY-83 08:12:47

K17E

30427060 RE

SAMPLE WEIGHT: (UG) 12498.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN RT4

ACQUIRE DATE: 18-MAY-83 16:42:06

GEM 13

PRESET LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

ELAPSED REAL TIME: 908. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

2130:	16.	15.	6.	15.	19.	14.	14.	10.	12.
2139:	12.	12.	11.	9.	8.	13.	15.	8.	11.
2148:	14.	14.	9.	22.	7.	21.	10.	17.	18.
2157:	16.	14.	11.	12.	10.	18.	17.	17.	17.
2166:	12.	12.	11.	15.	10.	13.	11.	10.	15.
2175:	12.	14.	14.	11.	16.	18.	14.	10.	17.
2184:	15.	17.	17.	8.	12.	17.	7.	15.	17.
2193:	13.	14.	11.	16.	20.	14.	15.	15.	14.
2202:	12.	14.	12.	16.	13.	18.	19.	16.	18.
2211:	19.	15.	15.	17.	14.	12.	25.	15.	21.
2220:	14.	12.	15.	21.	22.	17.	19.	14.	19.
2229:	27.	24.	30.	42.	59.	83.	97.	136.	145.
2238:	111.	78.	52.	50.	36.	44.	41.	50.	42.
2247:	70.	58.	116.	194.	442.	924.	1831.	3188.	4504.
2256:	5495.	5386.	4463.	3191.	1754.	846.	309.	116.	42.
2265:	11.	4.	10.	4.	4.	4.	2.	4.	5.
2274:	4.	3.	4.	3.	6.	4.	7.	3.	8.
2283:	6.	1.	5.	6.	2.	4.	6.	2.	7.
2292:	2.	3.	2.	5.	6.	8.	3.	2.	5.
2301:	3.	2.	4.	4.	4.	4.	5.	3.	7.
2310:	2.	2.	3.	0.	7.	1.	2.	5.	2.
2319:	1.	5.	3.	3.	3.	5.	2.	4.	6.
2328:	1.	4.	8.	14.	5.	7.	7.	6.	3.
2337:	3.	3.	4.	3.	5.	7.	4.	3.	2.
2346:	6.	5.	2.	2.	3.	3.	5.	2.	3.
2355:	2.	3.	5.	3.	4.	5.	8.	5.	3.
2364:	2.	3.	6.	3.	3.	4.	2.	3.	4.

% ANTIMONY

1.3720

% ARSENIC

0.0109

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

19-MAY-83 08:13:54

K17C

30427060 KB

SAMPLE WEIGHT: (UG) 12620.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN RI4

ACQUIRE DATE: 18-MAY-83 16:57:34

GEM 13

PRESET LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:05:55

ELAPSED REAL TIME: 908. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	PKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
% COPPER	511.0	184.	616.	0.0099	0.0005	5.2
% ANTIMONY	564.1	126.	32679.	1.3740	0.0099	0.7
% ARSENIC	559.3	150.	462.	0.0114	0.0007	6.1
			CU	SE	AS	
CNTS/UG/MIN AT RD			50.9	13.7	26.52	
CENTROID CHANNEL			2045	2256	2237	
HALF LIFE			12.0 H	2.7 D	26.3 H	
BACKGROUND SPACING			50 L&R	80 L&R	30 L	CH 2245 R
BACKGROUND CHANNELS			22 L&R	22 L&R	11 L	1 R
PEAK CHANNELS			13	13	5	

1988:	23.	16.	13.	20.	12.	10.	18.	18.	15.
1997:	13.	14.	9.	14.	16.	16.	11.	14.	23.
2006:	19.	12.	20.	20.	12.	20.	18.	19.	23.
2015:	19.	11.	10.	11.	16.	16.	20.	16.	12.
2024:	18.	17.	16.	20.	13.	21.	19.	17.	17.
2033:	17.	18.	18.	29.	34.	40.	41.	55.	76.
2042:	75.	93.	67.	79.	64.	78.	47.	50.	34.
2051:	41.	22.	26.	19.	13.	25.	14.	16.	10.
2060:	16.	10.	21.	13.	10.	13.	10.	11.	14.
2069:	11.	9.	4.	17.	15.	18.	12.	10.	20.
2078:	20.	14.	15.	20.	18.	11.	16.	10.	12.
2087:	17.	12.	16.	16.	12.	9.	16.	12.	15.
2096:	19.	12.	16.	13.	16.	20.	16.	16.	18.
2105:	10.	15.	11.	11.	17.	9.	12.	14.	15.

% COPPER

0.0099

FEDERAL BUREAU OF INVESTIGATION WASHINGTON DC
LEAD ANALYSIS
19-MAY-83 08:14:23

K12C

30427060 KB

SAMPLE WEIGHT: (UG) 12620.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN R14

ACQUIRE DATE: 18-MAY-83 16:57:34

GEM 13

PRESET LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

ELAPSED REAL TIME: 908. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

2130:	12.	13.	12.	27.	15.	9.	16.	18.	16.
2139:	7.	10.	17.	13.	17.	17.	19.	12.	17.
2148:	12.	15.	8.	15.	11.	11.	12.	10.	17.
2157:	14.	6.	13.	11.	14.	12.	14.	11.	8.
2166:	8.	12.	12.	3.	14.	13.	11.	12.	18.
2175:	11.	18.	10.	13.	16.	21.	13.	14.	18.
2184:	18.	11.	13.	15.	15.	15.	8.	11.	15.
2193:	8.	14.	8.	12.	9.	14.	11.	17.	13.
2202:	6.	13.	17.	13.	16.	18.	11.	14.	20.
2211:	11.	11.	10.	25.	16.	15.	18.	13.	15.
2220:	14.	16.	19.	19.	12.	18.	19.	15.	14.
2229:	27.	25.	30.	38.	59.	73.	111.	137.	123.
2238:	109.	99.	63.	49.	53.	44.	40.	33.	47.
2247:	60.	64.	99.	194.	460.	924.	1866.	3054.	4682.
2256:	5455.	5542.	4589.	3055.	1800.	822.	362.	112.	37.
2265:	12.	9.	6.	5.	5.	4.	2.	2.	4.
2274:	6.	3.	7.	3.	3.	4.	5.	3.	1.
2283:	6.	4.	4.	4.	6.	4.	3.	4.	0.
2292:	2.	3.	8.	2.	3.	3.	6.	2.	5.
2301:	2.	7.	5.	5.	0.	2.	3.	5.	3.
2310:	5.	5.	2.	3.	4.	3.	4.	2.	4.
2319:	2.	7.	3.	1.	4.	1.	2.	2.	3.
2328:	7.	6.	3.	3.	6.	8.	7.	7.	6.
2337:	5.	5.	3.	3.	4.	6.	6.	7.	4.
2346:	4.	1.	4.	1.	2.	2.	4.	3.	4.
2355:	3.	4.	1.	7.	7.	7.	2.	5.	1.
2364:	1.	4.	3.	1.	2.	3.	5.	4.	1.

% ANTIMONY

1.3740

% ARSENIC

0.0114

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
 19-MAY-83 08:15:30

K LBA

30427060 RB

SAMPLE WEIGHT: (UG) 12865.00
 ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN RT4
 ACQUIRE DATE: 18-MAY-83 17:12:56 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
 ELAPSED REAL TIME: 907. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
Z-COPPER	511.0	185.	809.	0.0129	0.0006	4.4
Z-ANTIMONY	564.1	100.	28027.	1.1591	0.0088	0.8
Z-ARSENIC	559.3	125.	352.	0.0085	0.0006	7.1

	CU	SB	AS
CNTS/UG/MIN AT RD	50.9	13.7	26.52
CENTROID CHANNEL	2044	2256	2236
HALF-WIDTH	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2244 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	20.	11.	12.	9.	17.	13.	17.	9.	18.
1997:	17.	18.	15.	16.	18.	14.	14.	16.	18.
2006:	21.	20.	16.	14.	21.	15.	12.	9.	20.
2015:	15.	22.	24.	8.	22.	12.	17.	13.	15.
2024:	12.	14.	9.	14.	19.	20.	15.	18.	10.
2033:	25.	17.	19.	39.	39.	49.	60.	65.	72.
2042:	94.	94.	81.	122.	109.	69.	75.	51.	53.
2051:	29.	32.	18.	27.	18.	20.	10.	12.	17.
2060:	14.	18.	13.	17.	12.	14.	15.	16.	7.
2069:	17.	11.	11.	15.	14.	6.	20.	11.	12.
2078:	9.	10.	12.	13.	12.	17.	14.	13.	14.
2087:	12.	9.	17.	12.	8.	16.	13.	17.	14.
2096:	19.	19.	15.	7.	12.	11.	7.	10.	14.
2105:	7.	11.	7.	12.	15.	9.	20.	21.	11.

% COPPER

0.012%

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

19-MAY-83 08:15:50

K18A

3042/060 KB

SAMPLE WEIGHT: (UG) 12865.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN K14

ACQUIRE DATE: 18-MAY-83 17:12:56

GEM 13

PRESET LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

ELAPSED REAL TIME: 907. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

2130:	19.	13.	15.	4.	12.	11.	11.	13.	16.
2139:	16.	7.	15.	11.	13.	14.	8.	14.	15.
2148:	15.	12.	13.	17.	7.	10.	11.	12.	11.
2157:	13.	11.	17.	8.	10.	8.	10.	11.	10.
2166:	15.	7.	6.	13.	14.	13.	4.	11.	12.
2175:	8.	7.	16.	11.	13.	12.	14.	16.	18.
2184:	7.	14.	11.	11.	8.	9.	10.	21.	14.
2193:	16.	19.	14.	16.	13.	6.	9.	12.	18.
2202:	14.	12.	11.	13.	8.	14.	10.	7.	8.
2211:	10.	11.	15.	14.	22.	20.	13.	13.	14.
2220:	19.	17.	11.	19.	19.	10.	24.	16.	24.
2229:	11.	23.	25.	39.	41.	73.	90.	110.	88.
2238:	104.	55.	43.	41.	37.	35.	34.	44.	42.
2247:	39.	59.	106.	203.	413.	867.	1747.	2810.	4126.
2256:	4698.	4604.	3785.	2516.	1480.	624.	254.	86.	20.
2265:	8.	5.	6.	5.	2.	1.	2.	7.	3.
2274:	6.	4.	3.	2.	5.	6.	4.	2.	6.
2283:	5.	1.	5.	5.	4.	7.	4.	6.	6.
2292:	1.	4.	2.	0.	2.	2.	3.	6.	1.
2301:	5.	1.	1.	2.	2.	5.	4.	4.	4.
2310:	4.	3.	2.	3.	2.	2.	3.	3.	9.
2319:	5.	2.	7.	5.	1.	0.	5.	3.	6.
2328:	2.	4.	3.	3.	3.	11.	3.	6.	7.
2337:	3.	3.	2.	4.	4.	1.	3.	2.	4.
2346:	3.	3.	0.	5.	4.	1.	1.	2.	0.
2355:	2.	3.	4.	6.	2.	2.	5.	3.	3.
2364:	6.	1.	2.	3.	7.	8.	3.	5.	6.

% ANTIMONY

1.1591

% ARSENIC

0.0085

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
 19-MAY-83 08:17:06

K18H: 30427060 KB

SAMPLE WEIGHT: (UG) 12675.00
 ACTIVATION: 18-MAY-83 09:03:00 NES 10 MIN RT4
 ACQUIRE DATE: 18-MAY-83 17:28:14 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
 ELAPSED REAL TIME: 906. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	KGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
Z-COPPER	511.0	196.	671.	0.0110	0.0005	5.0
Z-ANTIMONY	564.1	100.	27552.	1.1596	0.0088	0.8
Z-ARSENIC	559.3	128.	336.	0.0084	0.0006	7.3
		CU	SB	AS		
CNTS/UG/MIN AT RD		50.9	13.7	26.52		
CENTROID CHANNEL		2045	2256	2237		
HAIF-LIIL		12.8 H	2.7 D	26.3 H		
BACKGROUND SPACING		50 L&R	80 L&R	30 L CH 2245 R		
BACKGROUND CHANNELS		22 L&R	22 L&R	11 L 1 R		
PEAK CHANNELS		13	13	5		

1980:	15.	7.	16.	16.	22.	18.	17.	14.	19.
1997:	11.	12.	19.	18.	16.	16.	17.	8.	20.
2006:	17.	18.	19.	9.	8.	11.	13.	14.	12.
2015:	14.	10.	9.	11.	19.	21.	13.	12.	15.
2024:	12.	14.	15.	10.	18.	12.	15.	21.	13.
2033:	16.	24.	22.	23.	31.	43.	43.	54.	80.
2042:	69.	87.	85.	80.	83.	81.	52.	52.	53.
2051:	48.	26.	25.	19.	24.	11.	15.	20.	13.
2060:	8.	10.	18.	16.	12.	13.	9.	16.	6.
2069:	10.	12.	15.	22.	13.	11.	11.	11.	11.
2078:	6.	15.	11.	15.	9.	14.	13.	11.	9.
2087:	8.	18.	16.	16.	15.	15.	11.	15.	11.
2096:	15.	10.	17.	11.	13.	15.	12.	10.	17.
2105:	12.	11.	12.	11.	14.	15.	11.	9.	12.

Z COPPER 0.0110

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

19 MAY-83 08:17:34

K18F

J0427060 KB

SAMPLE WEIGHT: (UG) 12675.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN K14

ACQUIRE DATE: 18-MAY-83 17:28:14

GEM 13

PRESET LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

ELAPSED REAL TIME: 906. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVL TIME: 900. SEC

OFFSET: -0.0226080 KEV

2130:	12.	18.	10.	14.	10.	15.	10.	15.	17.
2139:	6.	11.	14.	12.	8.	5.	9.	19.	11.
2148:	13.	10.	11.	7.	12.	7.	10.	16.	14.
2157:	13.	6.	9.	10.	7.	9.	10.	15.	9.
2166:	10.	14.	11.	6.	7.	11.	8.	14.	12.
2175:	8.	5.	12.	8.	7.	11.	11.	12.	11.
2184:	12.	10.	11.	12.	8.	9.	11.	17.	7.
2193:	9.	10.	11.	14.	8.	8.	11.	14.	11.
2202:	13.	13.	11.	18.	10.	13.	9.	11.	9.
2211:	9.	12.	18.	13.	15.	15.	10.	13.	9.
2220:	28.	11.	10.	15.	14.	12.	13.	15.	22.
2229:	11.	16.	26.	28.	34.	49.	82.	112.	94.
2238:	90.	75.	57.	43.	42.	35.	38.	35.	45.
2247:	51.	75.	100.	201.	402.	842.	1662.	2896.	3949.
2256:	4615.	4559.	3784.	2517.	1374.	619.	237.	86.	23.
2265:	10.	7.	5.	1.	4.	1.	6.	6.	3.
2274:	7.	4.	2.	6.	3.	3.	6.	4.	3.
2283:	5.	5.	4.	6.	0.	3.	3.	2.	4.
2292:	4.	5.	3.	4.	6.	2.	2.	3.	4.
2301:	3.	5.	11.	4.	2.	0.	2.	4.	5.
2310:	3.	5.	4.	4.	3.	1.	3.	3.	6.
2319:	5.	4.	4.	2.	6.	7.	1.	4.	2.
2328:	3.	4.	1.	5.	8.	9.	9.	9.	7.
2337:	3.	2.	5.	5.	1.	4.	6.	0.	4.
2346:	2.	5.	3.	2.	2.	5.	3.	5.	2.
2355:	1.	4.	2.	2.	3.	6.	5.	3.	3.
2364:	4.	7.	4.	6.	5.	5.	3.	3.	7.

% ANTIMONY

1.1596

% ARSENIC

0.0084

FEDERAL BUREAU OF INVESTIGATION WASHINGTON DC
LEAD ANALYSIS
19-MAY-83 08:18:46

K1H1: 30427060 KB

SAMPLE WEIGHT: (UG) 12553.00
ACTIVATION: 18-MAY-83 09:03:00 NPS 10 MIN RT4
ACQUIRE DATE: 18-MAY-83 17:43:32 GEM 13
PRESET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
ELAPSED REAL TIME: 906. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	PKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
Z-COPPER	511.0	161.	803.	0.0135	0.0006	4.3
Z-ANTIMONY	564.1	106.	26870.	1.1451	0.0008	0.8
Z-ARSENIC	559.3	117.	417.	0.0105	0.0007	6.2
			CU	SB	AS	
CNTS/UG/MIN AT RD			50.9	13.7	26.52	
CENTROID CHANNEL			2044	2256	2237	
HALF LIFE			12.8 H	2.7 D	26.3 H	
BACKGROUND SPACING			50 L&R	80 L&R	30 L CH 2244 R	
BACKGROUND CHANNELS			22 L&R	22 L&R	11 L 1 R	
PEAK CHANNELS			13	13	5	

1988:	10.	19.	10.	9.	15.	16.	8.	16.	11.
1997:	15.	13.	18.	14.	11.	13.	19.	15.	10.
2006:	9.	15.	16.	18.	11.	12.	19.	7.	12.
2015:	18.	8.	19.	14.	14.	25.	17.	7.	13.
2024:	12.	13.	10.	15.	20.	18.	7.	15.	13.
2033:	15.	35.	17.	23.	35.	48.	54.	57.	75.
2042:	94.	79.	109.	92.	86.	78.	76.	61.	55.
2051:	28.	30.	27.	22.	21.	9.	21.	12.	16.
2060:	10.	15.	11.	13.	11.	12.	11.	10.	17.
2069:	11.	11.	13.	10.	16.	10.	8.	15.	13.
2078:	24.	11.	6.	16.	13.	11.	13.	13.	12.
2087:	9.	17.	8.	12.	13.	12.	14.	9.	8.
2096:	9.	9.	14.	15.	12.	14.	16.	12.	11.
2105:	9.	10.	9.	12.	10.	6.	14.	14.	10.

Z COPPER 0.0135

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
19-MAY-83 08:19:25

K1BL

30427060 KB

SAMPLE WEIGHT: (UG) 12553.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN RT4

ACQUIRE DATE: 18-MAY-83 17:43:32

GEM 13

PRESET LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

ELAPSED REAL TIME: 906. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

2130:	17.	13.	15.	25.	13.	10.	11.	14.	12.
2139:	12.	10.	11.	4.	9.	10.	7.	12.	10.
2148:	13.	13.	14.	10.	10.	4.	3.	9.	14.
2157:	13.	8.	17.	8.	14.	9.	8.	13.	14.
2166:	15.	14.	10.	14.	6.	13.	16.	9.	8.
2175:	9.	10.	13.	8.	11.	10.	13.	12.	9.
2184:	7.	13.	15.	14.	12.	11.	14.	8.	16.
2193:	12.	8.	15.	8.	11.	9.	20.	14.	18.
2202:	11.	7.	8.	12.	9.	12.	13.	11.	16.
2211:	8.	10.	4.	8.	14.	20.	8.	15.	13.
2220:	8.	8.	20.	18.	24.	15.	12.	17.	13.
2229:	13.	21.	20.	31.	38.	77.	105.	109.	92.
2238:	120.	78.	53.	42.	35.	28.	24.	45.	39.
2247:	40.	60.	81.	171.	383.	823.	1567.	2658.	3792.
2256:	4518.	4409.	3729.	2599.	1432.	633.	262.	65.	30.
2265:	6.	5.	3.	5.	2.	2.	8.	5.	7.
2274:	4.	1.	4.	3.	4.	5.	3.	6.	3.
2283:	0.	4.	3.	1.	4.	2.	3.	3.	4.
2292:	3.	5.	3.	1.	2.	2.	1.	2.	4.
2301:	2.	4.	2.	1.	7.	5.	1.	2.	5.
2310:	5.	6.	2.	8.	5.	1.	1.	2.	3.
2319:	7.	6.	1.	4.	3.	1.	2.	3.	6.
2328:	3.	3.	9.	2.	9.	4.	7.	8.	8.
2337:	4.	5.	2.	3.	7.	1.	5.	3.	2.
2346:	1.	5.	5.	3.	2.	6.	2.	1.	2.
2355:	3.	5.	3.	5.	3.	0.	2.	1.	2.
2364:	7.	2.	2.	1.	0.	4.	2.	3.	4.

% ANTIMONY

1.1451

% ARSENIC

0.0105

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
 19-MAY-83 08:20:32

K19A

3042/060 KB

SAMPLE WEIGHT: (UG) 12681.00
 ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN RT4
 ACQUIRE DATE: 18-MAY-83 17:58:49 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
 ELAPSED REAL TIME: 909. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	184.	650.	0.0110	0.0006	5.0
%-ANTIMONY	564.1	107.	32797.	1.3073	0.0100	0.7
%-ARSENIC	559.3	152.	330.	0.0083	0.0006	7.7

	CU	SB	AS
CNIS/UG/MIN AT RD	50.9	13.7	26.52
CENTROID CHANNEL	2044	2256	2237
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2242 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	17.	18.	15.	18.	21.	12.	12.	15.	9.
1997:	17.	14.	12.	12.	22.	16.	12.	15.	15.
2006:	19.	20.	16.	18.	12.	14.	17.	19.	21.
2015:	13.	17.	14.	17.	13.	15.	11.	22.	10.
2024:	14.	12.	14.	22.	18.	12.	15.	19.	15.
2033:	23.	28.	26.	32.	33.	34.	60.	52.	66.
2042:	87.	94.	68.	80.	76.	67.	52.	51.	47.
2051:	33.	32.	22.	23.	22.	17.	9.	16.	13.
2060:	13.	11.	11.	8.	11.	17.	8.	16.	24.
2069:	11.	15.	10.	18.	14.	12.	12.	14.	14.
2078:	14.	13.	12.	17.	16.	9.	17.	18.	13.
2087:	15.	17.	10.	10.	17.	16.	15.	10.	16.
2096:	12.	17.	14.	12.	14.	7.	8.	11.	12.
2105:	17.	10.	17.	10.	14.	17.	16.	11.	15.

% COPPER 0.0110

FREIGHT LABORATORY WASHINGTON DC
LEAD ANALYSIS
 19-MAY-83 08:21:00

KISA

3042/060 KB

SAMPLE WEIGHT: (UG) 12681.00
 ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN R14
 ACQUIRE DATE: 18-MAY-83 17:58:49 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
 ELAPSED REAL TIME: 909. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

2130:	16.	14.	12.	18.	16.	17.	13.	20.	12.
2139:	15.	13.	8.	14.	10.	13.	17.	12.	13.
2148:	13.	23.	15.	11.	7.	9.	11.	18.	12.
2157:	22.	11.	15.	16.	9.	11.	11.	15.	12.
2166:	17.	11.	18.	16.	19.	10.	12.	11.	7.
2175:	11.	13.	15.	19.	6.	14.	13.	13.	16.
2184:	12.	14.	9.	18.	9.	14.	14.	12.	17.
2193:	16.	11.	12.	16.	20.	19.	11.	12.	14.
2202:	10.	14.	12.	13.	10.	15.	18.	16.	14.
2211:	15.	15.	20.	13.	18.	10.	23.	13.	17.
2220:	18.	15.	11.	19.	11.	18.	14.	19.	9.
2229:	16.	27.	31.	31.	46.	62.	78.	92.	119.
2238:	95.	71.	53.	47.	36.	39.	44.	38.	45.
2247:	66.	70.	95.	222.	438.	911.	1799.	3173.	4512.
2256:	5538.	5615.	4636.	3123.	1779.	837.	321.	112.	32.
2265:	7.	3.	4.	4.	9.	5.	8.	5.	3.
2274:	2.	5.	6.	2.	6.	5.	6.	1.	4.
2283:	4.	5.	7.	2.	3.	6.	9.	3.	4.
2292:	0.	7.	5.	6.	0.	4.	5.	4.	1.
2301:	8.	4.	5.	3.	4.	5.	3.	7.	4.
2310:	6.	2.	1.	6.	8.	3.	9.	3.	2.
2319:	7.	5.	7.	4.	2.	6.	2.	5.	1.
2328:	7.	6.	6.	11.	4.	6.	4.	7.	4.
2337:	3.	1.	4.	4.	2.	6.	5.	2.	7.
2346:	1.	3.	2.	2.	5.	4.	2.	6.	3.
2355:	7.	4.	3.	2.	3.	7.	5.	7.	4.
2364:	3.	1.	4.	4.	4.	3.	4.	4.	3.

% ANTIMONY 1.3873

% ARSENIC 0.0083

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

19-MAY 83 08:22:07

K19B

30427060 RB

SAMPLE WEIGHT: (UG) 12442.00
 ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN K14
 ACQUIRE DATE: 18-MAY-83 10:14:12 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
 ELAPSED REAL TIME: 900. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
Z-COPPER	511.0	196.	574.	0.0100	0.0006	5.5
Z-ANTIMONY	564.1	121.	31942.	1.3008	0.0101	0.7
Z-ARSENIC	559.3	162.	323.	0.0083	0.0007	7.9

	CU	SB	AS
CNTS/UG/MIN AT RD	50.9	13.7	26.52
CENTROID CHANNEL	2045	2236	2237
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2245 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1980:	15.	26.	13.	17.	15.	15.	17.	15.	22.
1997:	20.	14.	17.	15.	15.	24.	18.	15.	12.
2006:	18.	16.	12.	12.	13.	21.	19.	18.	10.
2015:	9.	17.	10.	12.	19.	12.	15.	11.	13.
2024:	20.	17.	10.	23.	18.	12.	11.	14.	16.
2033:	18.	20.	17.	29.	45.	41.	46.	59.	77.
2042:	62.	73.	69.	65.	83.	67.	50.	43.	32.
2051:	44.	24.	17.	20.	20.	21.	17.	24.	16.
2060:	73.	13.	22.	11.	10.	23.	9.	16.	12.
2069:	7.	17.	8.	15.	12.	21.	16.	18.	14.
2078:	10.	14.	14.	10.	15.	14.	9.	17.	13.
2087:	10.	13.	16.	12.	8.	19.	15.	10.	11.
2096:	15.	15.	16.	20.	10.	9.	20.	10.	13.
2105:	15.	15.	13.	12.	14.	10.	13.	11.	16.

Z COPPER

0.0100

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
19-MAY-83 08:22:36

K19F

3042/060 RB

SAMPLE WEIGHT: (UG) 12442.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN R14

ACQUIRE DATE: 18-MAY-83 18:14:12

GEM 13

PRESET LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:05:55

FLAPSED REAL TIME: 908. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

2130:	16.	13.	18.	12.	14.	14.	12.	12.	10.
2139:	15.	9.	9.	14.	19.	15.	11.	14.	9.
2148:	6.	11.	13.	15.	12.	10.	14.	15.	10.
2157:	13.	11.	12.	15.	14.	16.	17.	10.	9.
2166:	12.	8.	14.	11.	12.	12.	13.	19.	20.
2175:	18.	13.	15.	12.	14.	5.	8.	9.	10.
2184:	15.	14.	12.	15.	15.	21.	17.	5.	10.
2193:	11.	12.	13.	12.	14.	13.	7.	13.	11.
2202:	16.	16.	11.	16.	17.	7.	18.	15.	11.
2211:	19.	16.	13.	18.	19.	21.	11.	14.	14.
2220:	23.	12.	10.	14.	8.	20.	18.	14.	19.
2229:	26.	31.	20.	33.	52.	72.	91.	81.	92.
2238:	97.	74.	56.	36.	38.	40.	43.	30.	43.
2247:	58.	72.	100.	185.	441.	904.	1857.	3021.	4409.
2256:	5335.	5361.	4421.	3160.	1782.	857.	330.	125.	28.
2265:	12.	7.	6.	1.	8.	3.	7.	2.	6.
2274:	3.	5.	6.	7.	4.	7.	7.	6.	5.
2283:	9.	3.	5.	4.	4.	6.	5.	5.	3.
2292:	2.	6.	6.	5.	5.	1.	6.	4.	4.
2301:	4.	2.	3.	7.	2.	2.	7.	4.	1.
2310:	3.	0.	2.	3.	1.	2.	2.	6.	4.
2319:	3.	3.	1.	3.	6.	1.	1.	2.	10.
2328:	3.	3.	7.	3.	4.	7.	7.	7.	3.
2337:	7.	3.	5.	2.	7.	2.	4.	2.	4.
2346:	4.	4.	4.	7.	3.	4.	5.	0.	4.
2355:	5.	1.	4.	4.	5.	3.	1.	2.	3.
2364:	1.	4.	8.	3.	6.	2.	2.	5.	4.

% ANTIMONY

1.3808

% ARSENIC

0.0083

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
19-MAY-83 08:23:43

K191

30427060 RB

SAMPLE WEIGHT: (UG) 12795.00
ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN RT4
ACQUIRE DATE: 18-MAY-83 18:29:34 GEM 13
FRESH TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
ELAPSED REAL TIME: 908. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 900. SEC OFFSLT: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	± SIGMA DEV	% DEV
% COPPER	511.0	202.	576.	0.0099	0.0005	5.5
% ANTIMONY	564.1	119.	32766.	1.3811	0.0100	0.7
% ARSENIC	559.3	146.	362.	0.0091	0.0007	7.2

	CU	SB	AS
CNTS/UG/MIN AT RD	50.9	13.7	26.52
CONTROL CHANNEL	2045	2256	2237
HALF LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2242 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L J R
PEAK CHANNELS	13	13	5

1980:	15.	19.	12.	10.	15.	17.	26.	14.	16.
1997:	18.	17.	24.	15.	15.	21.	13.	17.	11.
2006:	19.	17.	12.	12.	23.	8.	21.	20.	13.
2015:	25.	17.	15.	13.	16.	9.	14.	17.	17.
2024:	13.	19.	22.	16.	19.	20.	24.	14.	22.
2033:	19.	17.	29.	28.	33.	28.	36.	59.	74.
2042:	54.	71.	76.	85.	71.	65.	67.	48.	33.
2051:	38.	29.	18.	27.	18.	24.	10.	24.	16.
2060:	12.	13.	12.	12.	15.	9.	11.	12.	18.
2069:	20.	9.	15.	20.	13.	11.	12.	11.	21.
2078:	11.	21.	13.	12.	11.	14.	15.	14.	16.
2087:	14.	17.	13.	15.	15.	13.	13.	16.	11.
2096:	17.	13.	13.	14.	17.	14.	13.	15.	25.
2105:	19.	20.	19.	13.	19.	14.	14.	11.	12.

% COPPER

0.0099

FEDERAL BUREAU OF INVESTIGATION WASHINGTON DC
LEAD ANALYSIS
19-MAY-83 08:24:11

K19C

3042/060 KB

SAMPLE WEIGHT: (UG) 12795.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN K14

ACQUIRE DATE: 18-MAY-83 18:29:34

GEM 13

PRESLT LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

ELAPSED REAL TIME: 908. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

2130:	15.	19.	12.	13.	15.	15.	8.	12.	21.
2139:	13.	20.	10.	17.	11.	14.	10.	19.	12.
2148:	12.	13.	18.	14.	8.	8.	15.	10.	16.
2157:	11.	13.	19.	12.	16.	13.	12.	8.	12.
2166:	11.	11.	10.	19.	16.	15.	12.	15.	11.
2175:	17.	12.	10.	18.	11.	11.	9.	11.	7.
2184:	9.	14.	10.	14.	7.	10.	12.	11.	11.
2193:	11.	22.	15.	12.	12.	15.	13.	16.	11.
2202:	7.	16.	13.	10.	18.	9.	15.	18.	13.
2211:	10.	17.	15.	20.	12.	20.	21.	12.	12.
2220:	16.	13.	17.	16.	17.	16.	15.	13.	22.
2229:	18.	21.	30.	35.	50.	66.	75.	93.	115.
2238:	106.	91.	71.	48.	34.	36.	35.	40.	52.
2247:	52.	79.	106.	181.	413.	950.	1758.	3159.	4577.
2256:	5563.	5591.	4566.	3201.	1751.	848.	327.	126.	30.
2265:	16.	5.	10.	1.	2.	6.	3.	5.	4.
2274:	6.	7.	3.	1.	2.	6.	7.	4.	3.
2283:	3.	3.	2.	4.	6.	4.	4.	7.	4.
2292:	3.	5.	3.	8.	3.	5.	4.	4.	6.
2301:	2.	3.	8.	3.	2.	5.	2.	7.	5.
2310:	7.	5.	4.	4.	3.	3.	1.	4.	5.
2319:	1.	4.	11.	1.	10.	5.	6.	3.	0.
2328:	2.	5.	2.	13.	10.	9.	8.	4.	4.
2337:	2.	2.	4.	3.	2.	2.	3.	4.	4.
2346:	7.	3.	2.	3.	7.	3.	4.	2.	0.
2355:	1.	0.	3.	3.	0.	1.	1.	7.	4.
2364:	3.	1.	4.	4.	4.	3.	0.	4.	6.

% ANTIMONY

1.3811

% ARSENIC

0.0091

PHILIP LABORATORY WASHINGTON DC

LEAD ANALYSIS

19-MAY-83 08:25:18

K20A

30427060 KB

SAMPLE WEIGHT: (UG) 13095.00
 ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN RT4
 ACQUIRE DATE: 18-MAY-83 18:44:56 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
 ELAPSED REAL TIME: 908. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	202.	607.	0.0103	0.0006	5.3
%-ANTIMONY	564.1	135.	32856.	1.3569	0.0098	0.7
%-ARSENIC	559.3	152.	339.	0.0084	0.0006	7.6

	CU	SB	AS
CNTS/UG/MIN AT RD	50.9	13.7	26.52
CENTROID CHANNEL	2044	2256	2237
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2242 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	22.	15.	18.	23.	15.	18.	25.	16.	25.
1997:	15.	22.	7.	12.	19.	15.	20.	13.	11.
2006:	20.	13.	16.	12.	14.	10.	12.	12.	14.
2015:	24.	14.	26.	15.	16.	18.	16.	12.	13.
2024:	17.	15.	21.	8.	12.	19.	24.	15.	19.
2033:	26.	33.	27.	30.	31.	50.	50.	67.	73.
2042:	68.	72.	77.	62.	72.	68.	54.	46.	50.
2051:	35.	29.	17.	21.	15.	18.	28.	12.	16.
2060:	10.	11.	18.	26.	16.	15.	7.	15.	7.
2069:	18.	14.	15.	15.	14.	17.	11.	23.	20.
2078:	10.	16.	16.	12.	10.	16.	13.	18.	21.
2087:	9.	19.	7.	14.	11.	14.	16.	16.	13.
2096:	14.	15.	11.	12.	13.	19.	12.	11.	9.
2105:	17.	15.	12.	14.	16.	12.	7.	18.	13.

% COPPER

0.0103

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

19-MAY-83 08:25:47

K20A

3042/060 RB

SAMPLE WEIGHT: (UG) 13095.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN RT4

ACQUIRE DATE: 18-MAY-83 18:44:56

GEM 13

PRESET LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

ELAPSED REAL TIME: 908. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: 0.0226080 KEV

2130:	17.	15.	12.	12.	17.	22.	20.	16.	18.
2139:	10.	12.	9.	13.	20.	13.	10.	11.	19.
2148:	10.	10.	19.	15.	15.	8.	10.	16.	15.
2157:	9.	13.	10.	10.	18.	13.	16.	16.	11.
2166:	13.	17.	9.	16.	16.	16.	14.	10.	15.
2175:	17.	9.	13.	17.	17.	19.	15.	17.	15.
2184:	13.	16.	14.	23.	10.	12.	10.	14.	11.
2193:	12.	14.	11.	15.	13.	10.	10.	13.	13.
2202:	17.	14.	15.	7.	18.	9.	18.	12.	11.
2211:	14.	17.	9.	17.	16.	13.	10.	8.	23.
2220:	16.	15.	19.	17.	12.	18.	16.	19.	16.
2229:	18.	14.	30.	34.	47.	64.	68.	103.	113.
2238:	105.	75.	64.	39.	36.	43.	46.	48.	47.
2247:	51.	65.	114.	197.	425.	933.	1890.	3169.	4468.
2256:	5471.	5651.	4634.	3155.	1824.	863.	311.	98.	25.
2265:	13.	6.	4.	6.	4.	5.	5.	5.	4.
2274:	2.	6.	7.	3.	5.	7.	4.	6.	8.
2283:	8.	4.	5.	3.	5.	6.	2.	6.	3.
2292:	2.	7.	3.	5.	2.	4.	4.	2.	7.
2301:	7.	2.	6.	4.	3.	8.	6.	5.	4.
2310:	4.	4.	5.	1.	3.	5.	8.	1.	1.
2319:	7.	5.	3.	7.	7.	3.	3.	5.	7.
2328:	5.	10.	4.	8.	3.	11.	12.	10.	6.
2337:	2.	3.	7.	2.	2.	4.	4.	3.	6.
2346:	1.	0.	5.	4.	6.	2.	7.	5.	1.
2355:	1.	2.	4.	5.	1.	2.	1.	6.	2.
2364:	5.	2.	2.	7.	5.	7.	5.	4.	1.

% ANTIMONY

1.3569

% ARSENIC

0.0084

PHYSICS LABORATORY WASHINGTON DC

LEAD ANALYSIS

19-MAY-83 08:26:54

KZUE:

30427060 KB

SAMPLE WEIGHT: (UG) 13039.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN RT4

ACQUIRE DATE: 18-MAY-83 19:00:18

GEM 10

PRESLT LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:05:55

ELAPSED REAL TIME: 908. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVI TIME: 900. SEC

OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	212.	565.	0.0098	0.0006	5.7
%-ANTIMONY	564.1	137.	33425.	1.3900	0.0100	0.7
%-ARSENIC	559.3	176.	350.	0.0088	0.0007	7.7
			CU	SB	AS	
CNTS/UG/MIN AT RD			50.9	13.7	26.52	
CENTROID CHANNEL			2044	2256	223/	
HALF LIFE			12.8 H	2.7 D	26.3 H	
BACKGROUND SPACING			50 L&R	80 L&R	30 L	CH 2244 R
BACKGROUND CHANNELS			22 L&R	22 L&R	11 L	1 R
PEAK CHANNELS			13	13	5	

1980:	17.	18.	15.	19.	13.	21.	17.	21.	24.
1997:	18.	20.	19.	14.	18.	25.	14.	16.	15.
2006:	11.	16.	12.	17.	20.	18.	22.	18.	12.
2015:	16.	13.	21.	19.	16.	17.	12.	23.	12.
2024:	17.	20.	18.	18.	18.	16.	25.	16.	21.
2033:	25.	18.	19.	32.	31.	47.	46.	54.	67.
2042:	80.	64.	88.	77.	81.	62.	36.	42.	33.
2051:	38.	37.	12.	18.	16.	15.	16.	13.	20.
2060:	18.	13.	16.	10.	13.	20.	15.	10.	18.
2069:	14.	18.	12.	16.	7.	10.	19.	16.	18.
2078:	0.	16.	17.	10.	9.	20.	11.	13.	15.
2087:	15.	16.	20.	16.	14.	8.	10.	15.	15.
2096:	16.	12.	15.	13.	14.	11.	19.	15.	15.
2105:	15.	15.	18.	8.	18.	18.	24.	15.	13.

% COPPER

0.0098

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

19-MAY-83 08:27:22

K20B

30427060 RB

SAMPLE WEIGHT: (UG) 13039.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN R14

ACQUIRE DATE: 18-MAY-83 19:00:18

GEM 13

PRESET LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:05:55

ELAPSED REAL TIME: 908. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

2130:	24.	11.	20.	8.	18.	12.	19.	14.	17.
2139:	17.	16.	13.	17.	20.	19.	11.	23.	9.
2148:	14.	7.	18.	14.	15.	15.	14.	15.	17.
2157:	17.	13.	22.	19.	11.	17.	18.	17.	9.
2166:	12.	15.	16.	13.	12.	12.	13.	18.	8.
2175:	17.	9.	16.	13.	21.	17.	10.	13.	14.
2184:	12.	16.	20.	8.	16.	16.	19.	14.	16.
2193:	18.	21.	7.	6.	14.	10.	11.	10.	8.
2202:	19.	15.	13.	14.	19.	20.	13.	13.	14.
2211:	23.	13.	15.	15.	18.	19.	19.	20.	13.
2220:	20.	11.	22.	13.	22.	18.	21.	22.	20.
2229:	24.	17.	22.	47.	50.	66.	87.	114.	112.
2238:	83.	86.	61.	55.	39.	47.	37.	44.	44.
2247:	65.	75.	116.	205.	431.	956.	1872.	3180.	4595.
2256:	5665.	5693.	4675.	3225.	1848.	878.	338.	117.	36.
2265:	12.	7.	7.	2.	4.	1.	2.	6.	4.
2274:	4.	3.	3.	5.	2.	7.	1.	3.	6.
2283:	2.	6.	8.	5.	7.	4.	0.	3.	6.
2292:	2.	5.	9.	5.	5.	3.	2.	8.	6.
2301:	3.	4.	7.	3.	1.	8.	6.	1.	5.
2310:	3.	5.	3.	3.	4.	9.	4.	2.	2.
2319:	1.	2.	3.	1.	3.	4.	7.	2.	4.
2328:	5.	3.	3.	10.	9.	10.	8.	5.	6.
2337:	4.	4.	4.	5.	4.	6.	2.	3.	5.
2346:	5.	3.	4.	3.	3.	2.	7.	6.	2.
2355:	6.	4.	7.	5.	7.	8.	4.	5.	0.
2364:	8.	6.	0.	3.	1.	1.	6.	5.	3.

% ANTIMONY

1.3900

% ARSENIC

0.0088

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
19-MAY-83 08:28:29

K200

30427060 KB

SAMPLE WEIGHT: (UG) 12575.00
ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN RT4
ACQUIRE DATE: 18-MAY-83 19:15:40 GEM 13
PRESET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
ELAPSED REAL TIME: 908. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	PKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	200.	543.	0.0099	0.0006	5.8
%-ANTIMONY	564.1	114.	31572.	1.3651	0.0100	0.7
%-ARSENIC	559.3	139.	330.	0.0087	0.0007	7.5

	CU	SB	AS
CNTS/UG/MIN AT RD	50.9	13.7	26.52
CENTROID CHANNEL	2045	2256	2236
HAIF-LTIL	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&K	80 L&K	30 L CH 2242 R
BACKGROUND CHANNELS	22 L&K	22 L&K	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	15.	14.	17.	16.	13.	13.	18.	14.	22.
1997:	17.	18.	14.	19.	13.	15.	22.	22.	15.
2006:	23.	17.	15.	19.	11.	6.	17.	12.	18.
2015:	14.	16.	11.	16.	16.	9.	10.	12.	15.
2024:	13.	16.	17.	21.	15.	21.	9.	28.	9.
2033:	14.	17.	20.	20.	32.	37.	46.	60.	57.
2042:	58.	88.	63.	74.	57.	58.	49.	58.	37.
2051:	38.	21.	22.	14.	18.	20.	18.	13.	12.
2060:	16.	15.	12.	14.	13.	15.	15.	20.	18.
2069:	18.	9.	15.	8.	17.	20.	16.	18.	15.
2078:	14.	10.	16.	13.	16.	14.	19.	12.	13.
2087:	12.	16.	13.	13.	15.	14.	18.	13.	11.
2096:	10.	19.	20.	13.	12.	15.	14.	12.	14.
2105:	14.	13.	18.	15.	10.	13.	11.	10.	12.

% COPPER

0.0099

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

19 MAY-83 08:28:00

K200

30427060 KB

SAMPLE WEIGHT: (UG) 12575.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN RI4

ACQUIRE DATE: 18-MAY-83 19:15:40

GEM 13

PRESET LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

ELAPSED REAL TIME: 908. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

2130:	10.	16.	15.	14.	12.	9.	13.	16.	18.
2139:	17.	11.	15.	10.	9.	16.	11.	19.	8.
2148:	13.	15.	13.	6.	14.	12.	15.	9.	9.
2157:	15.	12.	12.	15.	9.	11.	19.	9.	12.
2166:	15.	18.	16.	12.	9.	12.	16.	15.	10.
2175:	12.	16.	9.	12.	12.	12.	15.	5.	12.
2184:	13.	9.	16.	15.	13.	20.	16.	10.	13.
2193:	17.	13.	11.	11.	12.	21.	12.	14.	13.
2202:	10.	8.	20.	17.	11.	17.	10.	10.	7.
2211:	16.	12.	15.	9.	20.	10.	15.	15.	21.
2220:	12.	19.	11.	18.	21.	14.	18.	14.	27.
2229:	23.	20.	25.	33.	45.	64.	96.	103.	103.
2238:	96.	60.	64.	49.	40.	41.	48.	45.	49.
2247:	55.	74.	116.	184.	381.	881.	1654.	2933.	4344.
2256:	1291.	5443.	4525.	3122.	1766.	833.	329.	100.	33.
2265:	15.	7.	4.	5.	4.	3.	2.	3.	9.
2274:	5.	4.	8.	4.	6.	3.	5.	6.	1.
2283:	0.	4.	7.	4.	2.	3.	1.	1.	7.
2292:	7.	5.	4.	5.	3.	2.	1.	2.	3.
2301:	2.	0.	3.	5.	5.	3.	2.	7.	7.
2310:	5.	6.	5.	5.	4.	3.	5.	7.	2.
2319:	5.	3.	5.	1.	5.	3.	2.	6.	3.
2328:	3.	3.	5.	3.	6.	7.	10.	5.	8.
2337:	3.	3.	2.	2.	3.	3.	4.	0.	5.
2346:	3.	2.	2.	5.	5.	4.	1.	5.	1.
2355:	3.	1.	8.	5.	4.	5.	4.	1.	5.
2364:	1.	4.	1.	2.	4.	2.	4.	4.	5.

% ANTIMONY

1.3651

% ARSENIC

0.0087

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

19-MAY-83 08:30:05

K21A

30427060 KB

SAMPLE WEIGHT: (UG) 12592.00
 ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN RT4
 ACQUIRE DATE: 18-MAY-83 19:31:02 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
 ELAPSED REAL TIME: 907. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	PKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COOPER	511.0	169.	683.	0.0126	0.0006	4.8
%-ANTIMONY	564.1	108.	26685.	1.1554	0.0089	0.8
%-ARSENIC	559.3	131.	362.	0.0095	0.0007	7.0

	CU	SB	AS
CNTS/UG/MIN AT RD	50.9	13.7	26.52
CENTROID CHANNEL	2044	2256	2236
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2243 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1980:	4.	12.	13.	18.	13.	14.	13.	12.	13.
1997:	11.	18.	18.	10.	9.	18.	15.	15.	19.
2006:	12.	10.	14.	12.	12.	19.	15.	11.	13.
2015:	15.	18.	13.	11.	14.	16.	11.	12.	10.
2024:	17.	12.	9.	10.	15.	17.	12.	16.	20.
2033:	14.	30.	18.	21.	33.	37.	40.	54.	65.
2042:	83.	68.	84.	96.	82.	75.	79.	55.	34.
2051:	36.	22.	13.	22.	14.	19.	9.	21.	13.
2060:	11.	14.	11.	9.	11.	9.	12.	16.	16.
2069:	8.	12.	10.	13.	14.	11.	14.	12.	8.
2078:	11.	17.	12.	13.	16.	9.	17.	6.	21.
2087:	11.	12.	19.	15.	13.	8.	16.	11.	10.
2096:	10.	4.	12.	13.	11.	8.	13.	11.	12.
2105:	5.	7.	16.	13.	9.	9.	21.	14.	11.

% COOPER

0.0126

FBI LABORATORY WASHINGTON DC
 LEAD ANALYSIS
 19-MAY-83 08:30:33

K21A

3042/060 KB

SAMPLE WEIGHT: (UG) 12592.00

ACTIVATION: 18-MAY-83 09:03:00

NE5 10 MIN RT4

ACQUIRE DATE: 18-MAY-83 19:31:02

GEM 13

PRESET LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

ELAPSED REAL TIME: 907. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

2130:	8.	9.	11.	14.	21.	12.	9.	9.	13.
2139:	13.	11.	11.	14.	14.	9.	19.	11.	10.
2148:	18.	12.	6.	13.	13.	13.	10.	6.	16.
2157:	11.	14.	7.	12.	15.	13.	13.	11.	11.
2166:	10.	14.	16.	9.	10.	13.	6.	12.	8.
2175:	13.	11.	13.	10.	20.	8.	16.	6.	10.
2184:	17.	16.	11.	10.	10.	7.	17.	7.	13.
2193:	11.	11.	15.	7.	12.	5.	16.	15.	9.
2202:	7.	14.	14.	13.	8.	11.	16.	15.	17.
2211:	7.	14.	10.	11.	14.	12.	14.	9.	9.
2220:	14.	15.	17.	16.	12.	16.	26.	10.	9.
2229:	17.	16.	20.	28.	44.	66.	86.	104.	110.
2238:	98.	65.	47.	37.	34.	29.	36.	53.	32.
2247:	51.	63.	90.	152.	350.	763.	1450.	2535.	3696.
2256:	4320.	4490.	3821.	2718.	1515.	697.	286.	102.	31.
2265:	8.	4.	7.	3.	9.	7.	8.	7.	4.
2274:	6.	2.	4.	5.	4.	4.	1.	2.	5.
2283:	4.	5.	2.	1.	4.	4.	5.	1.	5.
2292:	1.	6.	9.	4.	2.	1.	3.	3.	2.
2301:	5.	3.	1.	4.	2.	3.	2.	8.	2.
2310:	6.	4.	3.	3.	2.	4.	4.	4.	3.
2319:	4.	1.	4.	6.	2.	1.	5.	1.	1.
2328:	3.	4.	6.	3.	8.	4.	10.	3.	4.
2337:	8.	3.	3.	5.	1.	3.	3.	3.	3.
2346:	5.	5.	3.	2.	5.	6.	4.	3.	2.
2355:	1.	3.	1.	8.	2.	3.	4.	5.	3.
2364:	4.	2.	3.	1.	3.	8.	5.	2.	3.

% ANTIMONY

1.1554

% ARSENIC

0.0095

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
 19-MAY 83 08:31:40

K21B

30427060 KB

SAMPLE WRIGHT: (UG) 12918.00
 ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN RT4
 ACQUIRE DATE: 18-MAY-83 19:46:20 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:05:55
 ELAPSED REAL TIME: 907. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
% COPPER	511.0	177.	750.	0.0137	0.0006	4.6
% ANTIMONY	564.1	90.	28048.	1.1870	0.0090	0.8
% ARSENIC	559.3	144.	326.	0.0084	0.0006	7.7
CNTS/UG/MIN AT RD			CU 50.9	SE 13.7		AS 26.52
CENTROID CHANNEL			2044	2256		2237
HALF-LIFE			12.8 H	2.7 D		26.3 H
BACKGROUND SPACING			50 L&R	80 L&R	30 L	CH 2244 R
BACKGROUND CHANNELS			22 L&R	22 L&R	11 L	1 R
PEAK CHANNELS			13	13	5	

1980:	17.	13.	12.	12.	25.	11.	16.	12.	17.
1997:	12.	12.	13.	12.	12.	14.	16.	18.	10.
2006:	15.	15.	12.	14.	14.	10.	12.	16.	8.
2015:	12.	10.	12.	14.	9.	14.	15.	10.	12.
2024:	28.	16.	16.	11.	17.	18.	17.	18.	15.
2033:	23.	18.	29.	26.	31.	38.	56.	68.	79.
2042:	92.	89.	90.	103.	71.	84.	69.	46.	42.
2051:	15.	27.	30.	24.	20.	24.	13.	22.	13.
2060:	11.	14.	12.	18.	16.	5.	11.	6.	12.
2069:	14.	11.	10.	12.	12.	11.	11.	10.	15.
2078:	9.	19.	8.	3.	14.	14.	10.	21.	9.
2087:	11.	16.	16.	18.	11.	14.	12.	10.	7.
2096:	21.	12.	10.	14.	14.	12.	16.	14.	13.
2105:	11.	8.	6.	11.	12.	15.	7.	8.	12.

% COPPER 0.0137

FEDERAL BUREAU OF INVESTIGATION WASHINGTON DC
LEAD ANALYSIS
19-MAY-83 08:32:09

K21E

00427060 KB

SAMPLE WEIGHT: (UG) 12918.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN R14

ACQUIRE DATE: 18-MAY-83 19:46:20

GEM 13

PRESET LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

ELAPSED REAL TIME: 907. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

2130:	0.	11.	12.	10.	15.	13.	12.	8.	12.
2139:	11.	14.	10.	14.	22.	17.	12.	14.	12.
2148:	12.	7.	10.	8.	12.	8.	8.	17.	25.
2157:	6.	14.	13.	10.	12.	13.	10.	17.	12.
2166:	7.	10.	17.	15.	13.	12.	11.	7.	13.
2175:	10.	14.	9.	6.	8.	7.	12.	14.	10.
2184:	18.	15.	10.	11.	9.	11.	10.	8.	17.
2193:	14.	11.	19.	15.	4.	12.	15.	17.	12.
2202:	13.	19.	6.	16.	16.	13.	9.	14.	7.
2211:	20.	11.	16.	13.	13.	5.	15.	11.	17.
2220:	19.	14.	16.	16.	15.	14.	26.	19.	14.
2229:	13.	16.	23.	22.	41.	60.	84.	96.	97.
2238:	89.	68.	47.	43.	36.	36.	30.	37.	37.
2247:	45.	65.	83.	176.	376.	774.	1553.	2664.	3757.
2256:	4713.	4758.	4039.	2701.	1578.	759.	290.	90.	33.
2265:	7.	4.	7.	1.	6.	0.	3.	6.	9.
2274:	5.	4.	3.	2.	3.	8.	3.	4.	4.
2283:	3.	5.	2.	5.	4.	4.	3.	3.	6.
2292:	4.	4.	4.	3.	5.	6.	4.	4.	5.
2301:	3.	2.	2.	4.	1.	2.	5.	1.	4.
2310:	2.	4.	2.	5.	2.	4.	4.	4.	4.
2319:	0.	2.	4.	4.	3.	1.	3.	4.	3.
2328:	4.	5.	3.	4.	5.	5.	4.	11.	3.
2337:	1.	3.	1.	1.	5.	5.	4.	2.	6.
2346:	1.	3.	3.	2.	3.	3.	2.	6.	4.
2355:	5.	2.	3.	0.	3.	4.	3.	5.	4.
2364:	4.	7.	0.	6.	3.	2.	4.	1.	3.

% ANTIMONY

1.1870

% ARSENIC

0.0084

FILLET LABORATORY WASHINGTON DC

LEAD ANALYSIS

19-MAY-83 08:33:16

K210

30427060 RE

SAMPLE WEIGHT: (UG) 12511.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN RT4

ACQUIRE DATE: 18-MAY-83 20:01:38

GEM 13

PRESET LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

ELAPSED REAL TIME: 906. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0276080 KEV

FILMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
Z-COPPER	511.0	169.	706.	0.0135	0.0006	4.7
Z-ANTIMONY	564.1	99.	26659.	1.1681	0.0090	0.8
Z-ARSENIC	559.3	144.	365.	0.0098	0.0007	7.1

	CU	SB	AS
CN15/UG/MIN AT RD	50.9	13.7	26.52
CENTROID CHANNEL	2045	2256	2237
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2243 R
BACKGROUND CHANNELS	22 L&R	27 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	8.	17.	14.	15.	17.	15.	9.	15.	12.
1997:	17.	15.	19.	11.	7.	20.	17.	16.	18.
2006:	14.	16.	14.	11.	15.	15.	16.	8.	14.
2015:	24.	17.	12.	13.	9.	17.	15.	8.	22.
2024:	17.	15.	14.	10.	16.	13.	14.	14.	14.
2033:	15.	16.	20.	30.	37.	36.	50.	68.	66.
2042:	68.	87.	94.	81.	89.	68.	55.	67.	38.
2051:	44.	29.	22.	17.	12.	12.	21.	11.	12.
2060:	9.	13.	6.	12.	9.	20.	19.	17.	11.
2069:	4.	12.	13.	12.	7.	11.	10.	9.	7.
2078:	8.	8.	16.	9.	9.	10.	12.	11.	8.
2087:	14.	14.	11.	12.	10.	5.	13.	11.	9.
2096:	11.	13.	12.	15.	16.	12.	6.	18.	6.
2105:	7.	17.	11.	10.	11.	9.	12.	16.	11.

% COPPER

0.0135

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
19 MAY-83 08:33:44

K2117

30427060 KB

SAMPLE WEIGHT: (UG) 12511.00
ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN RT4
ACQUIRE DATE: 18-MAY-83 20:01:38 GEM 13
PREFILTER TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
ELAPSED REAL TIME: 906. SEC KEV/CHN1: 0.2500463
ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

2130:	12.	8.	13.	10.	12.	10.	11.	12.	7.
2139:	14.	11.	14.	18.	11.	10.	13.	7.	9.
2148:	9.	12.	12.	6.	13.	17.	10.	16.	13.
2157:	12.	14.	7.	14.	14.	14.	10.	17.	10.
2166:	11.	13.	6.	8.	14.	13.	14.	15.	8.
2175:	11.	9.	12.	15.	11.	8.	8.	7.	10.
2184:	12.	9.	10.	15.	12.	11.	4.	14.	7.
2193:	10.	12.	11.	11.	10.	11.	10.	9.	13.
2202:	8.	10.	19.	15.	14.	12.	9.	15.	18.
2211:	13.	11.	23.	10.	7.	17.	13.	14.	12.
2220:	16.	22.	12.	14.	14.	24.	11.	12.	13.
2229:	28.	16.	15.	26.	36.	58.	93.	103.	96.
2238:	105.	66.	45.	30.	37.	26.	35.	35.	41.
2247:	46.	67.	86.	174.	353.	712.	1536.	2512.	3686.
2256:	4450.	4510.	3701.	2694.	1480.	673.	277.	100.	32.
2265:	13.	8.	4.	8.	5.	4.	1.	3.	4.
2274:	2.	8.	2.	2.	4.	3.	2.	2.	4.
2283:	5.	6.	3.	5.	2.	5.	4.	2.	7.
2292:	2.	0.	2.	3.	7.	3.	3.	1.	3.
2301:	2.	2.	2.	3.	2.	5.	2.	1.	2.
2310:	5.	4.	6.	1.	3.	0.	0.	3.	2.
2319:	4.	5.	4.	2.	2.	6.	5.	3.	3.
2328:	3.	3.	4.	5.	5.	7.	5.	1.	5.
2337:	2.	6.	1.	3.	4.	3.	2.	3.	3.
2346:	4.	2.	2.	3.	2.	6.	4.	3.	2.
2355:	6.	2.	4.	2.	4.	4.	2.	1.	2.
2364:	3.	2.	2.	1.	2.	4.	3.	3.	1.

% ANTIMONY 1.1681

% ARSENIC 0.0098

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
 19-MAY-83 08:34:51

K22A

30427060 RB

SAMPLE WEIGHT: (UG) 12843.00
 ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN R14
 ACQUIRE DATE: 18-MAY-83 20:16:56 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
 ELAPSED REAL TIME: 908. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
Z-COPPER	511.0	211.	526.	0.0099	0.0006	5.9
Z-ANTIMONY	564.1	129.	32080.	1.3/30	0.0100	0.7
Z-ARSENIC	559.3	155.	342.	0.0090	0.0007	7.5
			CU	SB	AS	
CNTS/UG/MIN AT RD			50.9	13.7	26.52	
CENTROID CHANNEL			2045	2256	223/	
HALF-LIFE			12.8 H	2.7 D	26.3 H	
BACKGROUND SPACING			50 L&R	80 L&R	30 L CH 2244 R	
BACKGROUND CHANNELS			22 L&R	22 L&R	11 L 1 R	
PEAK CHANNELS			13	13	5	

1988:	14.	14.	15.	24.	18.	20.	19.	18.	11.
1997:	11.	19.	18.	14.	16.	19.	18.	19.	18.
2006:	16.	12.	15.	13.	20.	13.	17.	16.	15.
2015:	15.	16.	12.	18.	24.	9.	22.	21.	20.
2024:	16.	18.	18.	17.	9.	14.	18.	22.	16.
2033:	19.	21.	25.	36.	33.	27.	41.	53.	59.
2042:	65.	68.	77.	78.	65.	68.	49.	40.	42.
2051:	32.	27.	24.	15.	14.	9.	8.	17.	13.
2060:	16.	14.	18.	16.	8.	14.	15.	11.	12.
2069:	16.	13.	11.	15.	12.	19.	28.	16.	13.
2078:	17.	11.	10.	16.	9.	16.	12.	14.	13.
2087:	14.	12.	18.	16.	10.	13.	16.	17.	18.
2096:	18.	19.	12.	15.	16.	14.	20.	20.	18.
2105:	16.	15.	15.	17.	16.	14.	9.	18.	8.

Z COPPER 0.0099

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
19-MAY-83 08:35:19

K270

30422060 RE

SAMPLE WEIGHT: (UG) 12843.00
ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN R14
ACQUIRE DATE: 18-MAY-83 20:16:56 GEM 13
PRESLT LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
FLASHED REAL TIME: 908. SEC KEV/CHNL: 0.2500463
FLASHED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

2130:	18.	10.	16.	9.	11.	16.	9.	16.	9.
2139:	12.	13.	9.	13.	21.	13.	10.	14.	17.
2148:	13.	10.	14.	16.	18.	17.	20.	12.	8.
2157:	14.	14.	18.	12.	10.	8.	16.	15.	14.
2166:	19.	12.	14.	12.	20.	10.	9.	15.	17.
2175:	11.	16.	15.	27.	8.	12.	16.	16.	13.
2184:	13.	19.	7.	10.	14.	16.	12.	11.	13.
2193:	11.	13.	19.	19.	14.	13.	16.	15.	21.
2202:	15.	5.	10.	15.	19.	15.	20.	19.	14.
2211:	12.	11.	11.	7.	15.	17.	16.	12.	15.
2220:	15.	19.	17.	20.	22.	15.	19.	15.	20.
2229:	10.	27.	29.	29.	45.	58.	99.	104.	105.
2238:	90.	62.	52.	52.	49.	37.	33.	44.	50.
2247:	79.	70.	106.	176.	439.	916.	1764.	3047.	4399.
2256:	5325.	5359.	4558.	3203.	1792.	894.	337.	105.	17.
2265:	13.	2.	4.	7.	3.	4.	6.	7.	7.
2274:	3.	4.	6.	3.	5.	8.	6.	5.	2.
2283:	4.	8.	1.	1.	6.	3.	3.	9.	6.
2292:	4.	5.	2.	3.	5.	2.	3.	5.	3.
2301:	7.	3.	1.	3.	3.	3.	3.	2.	4.
2310:	2.	1.	5.	6.	2.	4.	4.	3.	5.
2319:	8.	4.	5.	4.	6.	2.	4.	4.	6.
2328:	5.	2.	5.	6.	8.	10.	4.	8.	6.
2337:	6.	4.	3.	5.	3.	4.	4.	5.	4.
2346:	1.	5.	3.	3.	1.	6.	5.	5.	6.
2355:	4.	4.	4.	2.	5.	3.	5.	1.	5.
2364:	5.	1.	4.	2.	5.	2.	4.	0.	7.

% ANTIMONY 1.3740

% ARSENIC 0.0090

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

19-MAY-83 08:36:27

K22E:

30427060 RE

SAMPLE WEIGHT: (UG) 13049.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN RT4

ACQUIRE DATE: 18-MAY-83 20:32:18

GEM 10

PRESET LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

ELAPSED REAL TIME: 900. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
Z-COPPER	511.0	191.	548.	0.0103	0.0006	5.7
Z-ANTIMONY	564.1	134.	31801.	1.3432	0.0098	0.7
Z-ARSENIC	559.3	161.	314.	0.0082	0.0007	8.1
			CU	SE	AS	
CN15/UG/MIN AT RD			50.9	13.7	26.52	
CLNTROID CHANNEL			2044	2256	2237	
HALF LIFE			12.8 H	2.7 D	26.3 H	
BACKGROUND SPACING			50 L&R	80 L&R	30 L	CH 2243 R
BACKGROUND CHANNELS			22 L&R	22 L&R	11 L	1 R
PEAK CHANNELS			13	13	5	

1980:	17.	16.	17.	12.	12.	14.	12.	15.	24.
1997:	13.	12.	16.	17.	19.	17.	12.	17.	13.
2006:	17.	15.	22.	16.	17.	18.	19.	10.	17.
2015:	18.	20.	20.	17.	12.	23.	14.	13.	18.
2024:	15.	16.	16.	9.	16.	20.	18.	19.	15.
2033:	21.	26.	18.	26.	33.	38.	54.	46.	50.
2042:	68.	75.	74.	76.	76.	53.	52.	39.	38.
2051:	24.	34.	25.	20.	14.	15.	19.	16.	19.
2060:	16.	10.	11.	14.	11.	14.	16.	15.	19.
2069:	15.	11.	14.	13.	9.	13.	13.	15.	13.
2078:	15.	13.	17.	13.	12.	21.	11.	11.	11.
2087:	13.	13.	15.	10.	17.	14.	16.	19.	21.
2096:	10.	11.	15.	13.	19.	16.	17.	11.	16.
2105:	14.	8.	12.	10.	12.	14.	11.	14.	12.

Z COPPER

0.0103

LEAD ANALYSIS

19-MAY-83 08:36:55

K22E

30477060 KB

SAMPLE WEIGHT: (UG) 13049.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN RT4

ACQUIRE DATE: 18-MAY-83 20:32:10

GEM 13

PRESH LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

ELAPSED REAL TIME: 908. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

2130:	13.	16.	12.	13.	10.	7.	11.	10.	15.
2139:	7.	19.	8.	9.	19.	14.	13.	17.	18.
2148:	13.	10.	19.	18.	11.	10.	16.	10.	9.
2157:	17.	12.	21.	14.	11.	13.	15.	19.	11.
2166:	19.	13.	8.	10.	12.	7.	15.	16.	17.
2175:	14.	14.	10.	14.	19.	23.	14.	17.	15.
2184:	17.	10.	15.	7.	11.	20.	12.	11.	22.
2193:	6.	16.	15.	14.	17.	10.	18.	11.	14.
2202:	10.	10.	21.	13.	12.	15.	10.	20.	17.
2211:	22.	11.	12.	12.	11.	16.	18.	10.	16.
2220:	17.	16.	9.	15.	12.	17.	30.	17.	10.
2229:	20.	29.	16.	40.	34.	51.	81.	95.	91.
2238:	83.	76.	57.	44.	42.	30.	45.	33.	40.
2247:	50.	65.	106.	181.	410.	896.	1728.	2914.	4499.
2256:	5276.	5404.	4394.	3187.	1843.	858.	345.	99.	36.
2265:	13.	4.	3.	4.	8.	4.	4.	6.	6.
2274:	5.	1.	6.	3.	2.	5.	5.	8.	10.
2283:	3.	6.	4.	2.	7.	3.	5.	6.	5.
2292:	2.	4.	5.	3.	4.	1.	4.	0.	8.
2301:	5.	1.	9.	2.	2.	6.	6.	3.	4.
2310:	4.	4.	4.	5.	2.	6.	6.	4.	5.
2319:	2.	3.	4.	6.	6.	0.	3.	3.	2.
2328:	2.	7.	8.	12.	9.	5.	9.	5.	11.
2337:	3.	1.	4.	3.	2.	4.	3.	6.	1.
2346:	6.	3.	1.	5.	7.	3.	1.	1.	4.
2355:	2.	4.	5.	1.	3.	2.	7.	2.	1.
2364:	6.	5.	1.	6.	6.	2.	3.	3.	4.

% ANTIMONY

1.3432

% ARSENIC

0.0082

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

19-MAY-83 08:38:03

K22C

30427060 KB

SAMPLE WEIGHT: (UG) 12184.00
 ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN RT4
 ACQUIRE DATE: 18-MAY-83 20:47:40 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
 ELAPSED REAL TIME: 907. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	PKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	181.	512.	0.0105	0.0006	5.9
%-ANTIMONY	564.1	115.	30405.	1.3792	0.0102	0.7
%-ARSENIC	559.3	162.	329.	0.0093	0.0007	7.8

	CU	SB	AS
CNTS/UG/MIN AT RD	50.9	13.7	26.52
CENTROID CHANNEL	2043	2256	2237
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2245 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1980:	15.	11.	12.	16.	15.	18.	17.	13.	17.
1997:	15.	15.	21.	14.	20.	17.	21.	17.	11.
2006:	12.	14.	20.	11.	19.	11.	14.	16.	19.
2015:	13.	13.	14.	12.	13.	11.	18.	15.	12.
2024:	20.	13.	16.	20.	14.	15.	20.	20.	11.
2033:	19.	25.	22.	25.	28.	34.	45.	57.	58.
2042:	69.	51.	68.	68.	65.	62.	52.	36.	22.
2051:	19.	27.	20.	14.	12.	18.	14.	17.	11.
2060:	22.	16.	11.	14.	10.	18.	11.	12.	12.
2069:	10.	16.	11.	15.	12.	12.	12.	16.	14.
2078:	14.	18.	10.	17.	10.	14.	13.	11.	17.
2087:	18.	9.	9.	15.	14.	15.	10.	12.	15.
2096:	18.	10.	16.	15.	12.	17.	17.	14.	15.
2105:	9.	13.	17.	13.	17.	12.	14.	12.	10.

% COPPER 0.0105

FEDERAL BUREAU OF INVESTIGATION WASHINGTON, DC
LEAD ANALYSIS
19-MAY-83 08:38:31

K22C

30427060 RE

SAMPLE WEIGHT: (UG) 12184.00
ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN RT4
ACQUIRE DATE: 18-MAY-83 20:47:40 GEM 13
PRLSET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
EIAFSD REAL TIME: 907. SEC KEV/CHNL: 0.2500463
EIAFSD LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

2130:	5.	15.	8.	17.	11.	14.	12.	10.	17.
2139:	13.	15.	11.	23.	13.	16.	12.	7.	16.
2148:	19.	15.	14.	8.	19.	6.	14.	11.	12.
2157:	17.	18.	12.	10.	6.	13.	9.	7.	21.
2166:	11.	14.	12.	18.	17.	12.	9.	14.	13.
2175:	9.	14.	13.	13.	15.	15.	11.	12.	13.
2184:	14.	17.	15.	11.	11.	14.	13.	12.	14.
2193:	8.	14.	9.	15.	12.	12.	17.	9.	17.
2202:	10.	17.	16.	18.	15.	17.	12.	16.	14.
2211:	18.	9.	12.	20.	14.	10.	19.	12.	19.
2220:	10.	15.	19.	8.	13.	21.	10.	16.	11.
2229:	18.	18.	30.	34.	45.	64.	77.	110.	114.
2238:	82.	75.	50.	37.	40.	47.	43.	37.	49.
2247:	43.	70.	100.	183.	378.	876.	1617.	2945.	4206.
2256:	5063.	5145.	4381.	2907.	1720.	824.	325.	83.	32.
2265:	8.	9.	7.	2.	7.	8.	3.	6.	4.
2274:	10.	2.	7.	7.	1.	0.	7.	5.	6.
2283:	4.	10.	3.	1.	3.	8.	8.	3.	5.
2292:	11.	6.	3.	5.	1.	2.	6.	3.	1.
2301:	4.	1.	3.	5.	3.	6.	8.	6.	3.
2310:	5.	6.	5.	3.	3.	0.	6.	3.	4.
2319:	6.	2.	4.	2.	2.	3.	4.	6.	5.
2328:	2.	7.	9.	6.	7.	4.	7.	11.	7.
2337:	3.	3.	4.	1.	3.	3.	3.	2.	4.
2346:	5.	5.	2.	5.	4.	2.	3.	6.	4.
2355:	2.	2.	4.	1.	4.	6.	2.	0.	4.
2364:	3.	2.	0.	5.	4.	0.	3.	3.	3.

% ANTIMONY 1.3792

% ARSENIC 0.0093

FEDERAL BUREAU OF INVESTIGATION WASHINGTON DC
LEAD ANALYSTS
19-MAY-83 08:39:38

K23A

30427060 KB

SAMPLE WEIGHT: (UG) 12218.00
ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN RT4
ACQUIRE DATE: 18-MAY-83 21:02:58 GEM 13
PRESHIFTIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
ELAPSED REAL TIME: 907. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	PKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	187.	475.	0.0098	0.0006	6.2
%-ANTIMONY	564.1	105.	30302.	1.3744	0.0102	0.7
%-ARSENIC	559.3	137.	305.	0.0086	0.0007	8.0

	CU	SB	AS
CNTS/UG/MIN AT RD	50.9	13.7	26.52
CENTROID CHANNEL	2045	2256	2237
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&K	80 L&K	30 L CH 2245 R
BACKGROUND CHANNELS	22 L&K	22 L&K	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	18.	16.	16.	15.	12.	16.	11.	12.	22.
1997:	18.	24.	15.	15.	13.	15.	17.	10.	14.
2006:	23.	21.	12.	14.	19.	13.	15.	15.	25.
2015:	14.	16.	17.	14.	19.	12.	14.	14.	21.
2024:	20.	17.	13.	7.	21.	14.	18.	11.	17.
2033:	19.	12.	17.	25.	34.	28.	41.	37.	46.
2042:	86.	59.	61.	64.	62.	50.	44.	43.	33.
2051:	36.	30.	18.	23.	18.	13.	15.	16.	12.
2060:	8.	16.	19.	18.	14.	16.	12.	12.	14.
2069:	11.	15.	23.	10.	7.	11.	13.	17.	14.
2078:	10.	14.	15.	18.	10.	5.	21.	20.	14.
2087:	11.	22.	11.	11.	17.	13.	16.	11.	10.
2096:	14.	12.	15.	9.	13.	11.	13.	12.	6.
2105:	13.	13.	14.	14.	13.	13.	16.	11.	11.

% COPPER 0.0098

LEAD ANALYSIS

19 MAY-83 08:40:07

K13A

30427060 RE

SAMPLE WEIGHT: (UG) 12218.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN RT4

ACQUIRE DATE: 18-MAY-83 21:02:58

GEM 10

PRESAMPLE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:05:55

ELAPSED REAL TIME: 907. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

2130:	12.	17.	12.	17.	13.	22.	17.	10.	15.
2139:	12.	8.	6.	12.	11.	11.	17.	5.	17.
2148:	11.	13.	20.	15.	15.	13.	8.	9.	6.
2157:	9.	11.	13.	7.	12.	19.	15.	15.	16.
2166:	13.	12.	9.	8.	25.	14.	11.	13.	11.
2175:	15.	7.	8.	10.	14.	15.	4.	13.	9.
2184:	12.	5.	10.	10.	10.	15.	13.	4.	14.
2193:	20.	12.	12.	9.	13.	14.	10.	11.	16.
2202:	14.	8.	10.	14.	12.	14.	9.	16.	14.
2211:	12.	14.	18.	17.	12.	18.	10.	15.	17.
2220:	13.	19.	8.	18.	16.	17.	21.	15.	13.
2229:	21.	25.	21.	38.	42.	53.	85.	86.	99.
2238:	94.	57.	48.	34.	41.	40.	34.	34.	35.
2247:	56.	79.	85.	179.	360.	860.	1688.	2866.	4073.
2256:	5002.	5229.	4361.	2953.	1739.	764.	333.	109.	26.
2265:	10.	1.	3.	7.	4.	4.	4.	8.	6.
2274:	10.	5.	3.	0.	1.	3.	5.	2.	7.
2283:	6.	4.	4.	4.	3.	5.	3.	7.	2.
2292:	3.	8.	5.	5.	1.	6.	3.	2.	6.
2301:	2.	5.	3.	4.	4.	1.	3.	5.	6.
2310:	7.	5.	5.	4.	1.	3.	4.	5.	3.
2319:	5.	4.	4.	4.	8.	5.	0.	3.	1.
2328:	4.	7.	6.	8.	4.	5.	9.	8.	4.
2337:	2.	5.	5.	4.	2.	6.	0.	5.	4.
2346:	5.	3.	5.	0.	3.	1.	4.	4.	3.
2355:	5.	3.	3.	1.	3.	2.	3.	2.	1.
2364:	5.	3.	4.	3.	2.	4.	6.	2.	4.

% ANTIMONY

1.3744

% ARSENIC

0.0086

FILL LABORATORY WASHINGTON DC

LEAD ANALYSIS

19-MAY-83 08:41:14

KZAB

3047/060 KB

SAMPLE WEIGHT: (UG) 12069.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN RT4

ACQUIRE DATE: 18-MAY-83 21:18:16

GEM 13

PRESET LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

ELAPSED REAL TIME: 907. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	209.	556.	0.0111	0.0006	5.7
%-ANTIMONY	564.1	144.	31767.	1.3723	0.0100	0.7
%-ARSENIC	559.3	142.	329.	0.0089	0.0007	7.6

	CU	SB	AS
CNTS/UG/MIN AT RD	50.9	13.7	26.52
CENTROID CHANNEL	2044	2256	2237
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2243 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	22.	19.	27.	14.	16.	18.	17.	10.	22.
1997:	16.	16.	18.	16.	16.	12.	12.	17.	19.
2006:	20.	11.	19.	9.	14.	21.	18.	14.	10.
2015:	6.	14.	16.	14.	19.	17.	14.	10.	19.
2024:	15.	19.	12.	18.	15.	18.	26.	25.	11.
2033:	17.	20.	27.	24.	26.	32.	47.	49.	73.
2042:	68.	74.	70.	59.	73.	61.	66.	59.	34.
2051:	27.	23.	15.	21.	19.	17.	14.	21.	14.
2060:	21.	10.	18.	17.	9.	18.	16.	15.	19.
2069:	16.	5.	13.	10.	13.	14.	16.	17.	12.
2078:	15.	11.	11.	8.	15.	17.	12.	10.	11.
2087:	17.	13.	16.	8.	11.	20.	18.	16.	12.
2096:	18.	11.	15.	15.	8.	14.	8.	9.	14.
2105:	18.	20.	11.	12.	10.	20.	14.	16.	16.

% COPPER

0.0111

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

19-MAY-83 08:41:42

K23F:

30427060 RE

SAMPLE WEIGHT: (UG) 12863.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN RT4

ACQUIRE DATE: 18-MAY-83 21:18:16

GEM 13

PRESET LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

ELAPSED REAL TIME: 907. SEC

KEV/CHNL: 0.2500463

FLASHED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

2130:	7.	16.	12.	12.	10.	21.	7.	13.	12.
2139:	29.	15.	10.	10.	8.	17.	16.	12.	12.
2148:	17.	14.	20.	7.	17.	7.	11.	12.	17.
2157:	10.	14.	3.	18.	9.	10.	10.	15.	17.
2166:	11.	21.	20.	20.	16.	18.	15.	22.	13.
2175:	16.	26.	15.	13.	10.	8.	20.	17.	6.
2184:	13.	19.	15.	10.	11.	16.	19.	10.	14.
2193:	16.	12.	14.	13.	9.	13.	10.	14.	25.
2202:	14.	11.	13.	10.	16.	14.	17.	9.	12.
2211:	15.	11.	13.	13.	16.	11.	11.	15.	22.
2220:	13.	21.	16.	23.	17.	20.	18.	12.	20.
2229:	20.	25.	21.	32.	54.	49.	86.	99.	99.
2238:	101.	64.	43.	36.	35.	35.	39.	44.	57.
2247:	54.	67.	116.	206.	417.	867.	1664.	3017.	4384.
2256:	5336.	5477.	4545.	3050.	1788.	855.	305.	112.	37.
2265:	9.	11.	3.	3.	7.	5.	1.	4.	5.
2274:	6.	1.	0.	2.	4.	3.	4.	4.	1.
2283:	1.	6.	7.	6.	5.	3.	6.	6.	4.
2292:	2.	8.	4.	2.	2.	4.	4.	5.	4.
2301:	7.	2.	6.	1.	1.	4.	5.	4.	0.
2310:	1.	7.	4.	5.	0.	7.	4.	5.	7.
2319:	5.	8.	5.	2.	4.	3.	4.	6.	6.
2328:	2.	0.	4.	6.	11.	5.	15.	6.	2.
2337:	8.	3.	5.	3.	3.	3.	4.	7.	5.
2346:	3.	2.	6.	2.	5.	1.	4.	7.	4.
2355:	4.	4.	4.	2.	5.	5.	4.	3.	4.
2364:	5.	3.	1.	3.	5.	2.	5.	4.	3.

% ANTIMONY

1.3723

% ARSENIC

0.0087

FELI LABORATORY WASHINGTON DC

LEAD ANALYSIS

19-MAY-83 08:42:50

K23C

30427060 KB

SAMPLE WEIGHT: (UG) 13768.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN RI4

ACQUIRE DATE: 18-MAY-83 21:33:38

GEM 13

PRESET LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

ELAPSED REAL TIME: 908. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
% COPPER	511.0	230.	558.	0.0105	0.0006	5.8
%-ANTIMONY	564.1	121.	34460.	1.3946	0.0099	0.7
%-ARSENIC	559.3	169.	346.	0.0088	0.0007	7.6

	CU	SB	AS
CNTS/UG/MIN AT RD	50.9	13.7	26.52
CENTROID CHANNEL	2044	2256	2237
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2243 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	16.	25.	18.	17.	23.	21.	12.	27.	18.
1997:	18.	16.	14.	19.	19.	13.	8.	16.	18.
2006:	15.	21.	20.	16.	20.	15.	13.	15.	11.
2015:	17.	16.	18.	13.	23.	23.	15.	16.	25.
2024:	12.	14.	20.	13.	22.	15.	19.	14.	12.
2033:	16.	19.	15.	31.	23.	43.	44.	60.	78.
2042:	56.	80.	80.	82.	76.	52.	59.	43.	35.
2051:	26.	25.	24.	15.	13.	17.	9.	18.	19.
2060:	26.	24.	16.	12.	14.	16.	14.	15.	13.
2069:	19.	18.	10.	17.	11.	16.	14.	14.	24.
2078:	10.	10.	17.	15.	14.	16.	19.	16.	14.
2087:	20.	14.	20.	19.	11.	14.	15.	21.	17.
2096:	19.	12.	19.	13.	9.	19.	18.	15.	17.
2105:	18.	18.	18.	15.	17.	16.	19.	14.	15.

% COPPER

0.0105

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

19-MAY-83 08:43:13

K230:

30427060 RB

SAMPLE WEIGHT: (UG) 13768.00

ACTIVATION: 18-MAY-83 09:03:00

ACQUIRE DATE: 18-MAY-83 21:33:38

PRESET LIVE TIME: 900. SEC

FLAGGED REAL TIME: 908. SEC

ELAPSED LIVE TIME: 900. SEC

NBS 10 MIN RT4

GEM 13

CALIB DATE: 17-MAY-83 09:35:55

KEV/CHNL: 0.2500463

OFFSET: -0.0226080 KEV

2130:	14.	14.	17.	12.	17.	14.	13.	11.	13.
2139:	14.	11.	12.	19.	15.	17.	18.	9.	16.
2148:	9.	14.	11.	8.	19.	18.	16.	10.	13.
2157:	16.	18.	21.	11.	7.	12.	10.	15.	14.
2166:	11.	13.	15.	10.	14.	14.	17.	20.	17.
2175:	10.	17.	6.	15.	11.	10.	16.	13.	9.
2184:	14.	17.	13.	18.	16.	14.	13.	9.	12.
2193:	14.	16.	10.	18.	11.	19.	15.	15.	16.
2202:	13.	15.	11.	17.	22.	18.	10.	17.	18.
2211:	8.	20.	17.	11.	23.	16.	17.	15.	17.
2220:	9.	17.	20.	9.	15.	20.	15.	12.	18.
2229:	25.	24.	18.	35.	47.	54.	93.	100.	106.
2238:	81.	77.	48.	44.	37.	29.	47.	42.	53.
2247:	58.	64.	118.	200.	410.	963.	1927.	3341.	4712.
2256:	5600.	5931.	4876.	3392.	1905.	956.	368.	105.	34.
2265:	14.	9.	4.	8.	5.	10.	2.	4.	4.
2274:	5.	4.	2.	4.	4.	9.	6.	6.	7.
2283:	5.	1.	5.	3.	2.	5.	7.	7.	9.
2292:	7.	3.	5.	2.	1.	4.	2.	4.	6.
2301:	0.	6.	5.	5.	5.	2.	3.	2.	5.
2310:	10.	4.	3.	5.	5.	3.	4.	5.	2.
2319:	9.	4.	5.	3.	5.	3.	7.	3.	8.
2328:	4.	5.	10.	5.	7.	4.	5.	9.	2.
2337:	7.	1.	6.	2.	3.	7.	4.	2.	1.
2346:	4.	3.	8.	1.	4.	2.	5.	6.	1.
2355:	2.	5.	3.	4.	3.	5.	5.	2.	3.
2364:	6.	7.	5.	3.	2.	0.	2.	1.	4.

% ANTIMONY

1.3746

% ARSENIC

0.0088

FIT LABORATORY WASHINGTON DC

LEAD ANALYSIS

19-MAY-83 08:44:25

K24A

30427060 RB

SAMPLE WLIGHT: (UG) 12359.00
 ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN K14
 ACQUIRE DATE: 18-MAY-83 21:49:00 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:05:55
 ELAPSED REAL TIME: 906. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	158.	618.	0.0132	0.0007	5.1
%-ANTIMONY	564.1	114.	25628.	1.1585	0.0090	0.8
%-ARSENIC	559.3	136.	363.	0.0104	0.0007	7.0

	CU	SB	AS
CNTS/UG/MIN AT RD	50.9	13.7	26.52
CENTROID CHANNEL	2043	2256	2237
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&K	80 L&K	30 L CH 2242 R
BACKGROUND CHANNELS	22 L&K	22 L&K	11 L 1 R
PEAK CHANNELS	13	13	5

1980:	11.	13.	16.	14.	13.	12.	19.	17.	11.
1997:	10.	13.	14.	13.	14.	13.	11.	10.	13.
2006:	10.	17.	9.	6.	11.	13.	13.	13.	14.
2015:	13.	14.	11.	8.	15.	16.	9.	10.	12.
2024:	11.	22.	12.	12.	10.	14.	16.	12.	8.
2033:	21.	29.	22.	33.	34.	33.	43.	52.	65.
2042:	77.	78.	79.	70.	69.	73.	49.	54.	32.
2051:	31.	34.	18.	15.	12.	20.	19.	17.	13.
2060:	13.	17.	9.	10.	18.	7.	18.	14.	8.
2069:	14.	13.	11.	12.	13.	9.	9.	14.	12.
2078:	11.	10.	11.	17.	11.	8.	14.	10.	6.
2087:	16.	9.	7.	16.	9.	15.	9.	7.	12.
2096:	9.	10.	15.	9.	15.	14.	6.	15.	11.
2105:	12.	7.	11.	14.	11.	6.	13.	15.	9.

% COPPER 0.0132

FLEET LABORATORY WASHINGTON DC
 LEAD ANALYSIS
 19-MAY-83 08:44:54

K21A

30427060 KB

SAMPLE WEIGHT: (UG) 12059.00
 ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN RT4
 ACQUIRE DATE: 18-MAY-83 21:49:00 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
 ELAPSED RFAL TIME: 906. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 900. SEC OFFSET: 0.0226080 KEV

2130:	15.	11.	10.	17.	10.	8.	9.	12.	10.
2139:	7.	9.	7.	9.	13.	12.	8.	10.	10.
2148:	9.	12.	9.	9.	11.	8.	9.	7.	9.
2157:	9.	11.	13.	17.	8.	7.	19.	9.	14.
2166:	14.	8.	8.	11.	11.	15.	11.	13.	10.
2175:	7.	9.	16.	13.	17.	10.	13.	7.	10.
2184:	0.	5.	12.	5.	9.	15.	11.	10.	10.
2193:	7.	11.	13.	8.	5.	11.	10.	6.	20.
2202:	9.	14.	14.	13.	11.	18.	5.	12.	9.
2211:	21.	10.	16.	13.	24.	14.	13.	15.	10.
2220:	14.	14.	12.	16.	8.	7.	20.	12.	15.
2229:	13.	18.	24.	26.	35.	70.	89.	80.	120.
2238:	98.	72.	52.	39.	26.	39.	41.	30.	36.
2247:	60.	62.	84.	178.	316.	675.	1415.	2076.	3532.
2256:	4314.	4259.	3641.	2563.	1465.	739.	269.	91.	20.
2265:	9.	6.	7.	7.	4.	3.	1.	4.	1.
2274:	2.	7.	3.	2.	8.	3.	4.	3.	3.
2283:	1.	5.	6.	3.	5.	5.	2.	4.	4.
2292:	4.	3.	1.	4.	5.	0.	2.	6.	5.
2301:	3.	4.	2.	6.	8.	5.	5.	4.	2.
2310:	4.	2.	5.	4.	3.	4.	1.	3.	5.
2319:	2.	3.	2.	7.	3.	2.	2.	1.	3.
2328:	2.	5.	11.	9.	5.	13.	5.	6.	5.
2337:	6.	2.	0.	4.	4.	3.	7.	6.	3.
2346:	1.	0.	2.	4.	3.	1.	2.	3.	4.
2355:	6.	3.	4.	3.	2.	3.	1.	3.	1.
2364:	2.	1.	2.	2.	5.	6.	3.	7.	1.

% ANTIMONY 1.1545

% ARSENIC 0.0104

FBI LABORATORY WASHINGTON DC.

LEAD ANALYSIS

19-MAY-83 08:46:00

K24H

30427060 KB

SAMPLE WEIGHT: (UG) 13424.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN RT4

ACQUIRE DATE: 18-MAY-83 22:04:18

GEM 13

PRESET LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

ELAPSED REAL TIME: 907. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	180.	602.	0.0120	0.0006	5.3
%-ANTIMONY	564.1	118.	27921.	1.1652	0.0038	0.8
%-ARSENIC	559.3	137.	333.	0.0088	0.0007	7.5

	CU	SE	AS
CNTS/UG/MIN AT RD	50.9	13.7	26.52
CENTROID CHANNEL	2044	2256	2236
HALF LTL	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2242 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	21.	25.	10.	14.	5.	17.	13.	18.	19.
1997:	11.	15.	17.	15.	13.	13.	13.	17.	18.
2006:	14.	18.	18.	14.	14.	17.	22.	11.	20.
2015:	15.	19.	18.	17.	12.	13.	16.	15.	13.
2024:	19.	17.	19.	17.	21.	17.	19.	20.	21.
2033:	19.	21.	20.	18.	32.	39.	41.	52.	54.
2042:	73.	83.	79.	76.	79.	74.	49.	47.	36.
2051:	33.	20.	23.	19.	12.	14.	4.	14.	20.
2060:	20.	10.	19.	9.	11.	17.	14.	14.	14.
2069:	9.	11.	12.	13.	12.	7.	12.	11.	17.
2078:	13.	15.	13.	24.	12.	15.	9.	15.	16.
2087:	9.	10.	16.	18.	18.	9.	10.	13.	8.
2096:	17.	16.	11.	9.	11.	11.	13.	15.	17.
2105:	11.	9.	8.	12.	6.	7.	15.	10.	10.

% COPPER

0.0120

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

19-MAY-83 08:46:29

KT4B

30427060 KB

SAMPLE WEIGHT: (UG) 13424.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN RT4

ACQUIRE DATE: 18-MAY-83 22:04:18

GEM 13

PRESET TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

ELAPSED REAL TIME: 907. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: 0.0226080 KEV

2130:	11.	8.	15.	12.	12.	15.	15.	10.	11.
2139:	8.	10.	3.	15.	13.	7.	11.	8.	6.
2148:	7.	10.	8.	10.	19.	13.	11.	15.	10.
2157:	5.	11.	5.	12.	9.	10.	8.	14.	8.
2166:	8.	13.	18.	14.	10.	14.	11.	16.	18.
2175:	12.	9.	15.	15.	11.	11.	6.	15.	13.
2184:	17.	6.	14.	12.	7.	8.	8.	9.	11.
2193:	10.	13.	12.	15.	12.	9.	8.	9.	7.
2202:	8.	14.	10.	13.	10.	18.	11.	16.	13.
2211:	17.	9.	12.	15.	13.	9.	13.	14.	16.
2220:	13.	12.	17.	14.	15.	10.	20.	18.	10.
2229:	13.	18.	14.	34.	47.	63.	71.	107.	110.
2238:	88.	59.	47.	44.	30.	35.	35.	45.	45.
2247:	56.	50.	85.	158.	381.	720.	1566.	2578.	3764.
2256:	4562.	4743.	4103.	2765.	1611.	765.	323.	116.	23.
2265:	11.	6.	7.	3.	6.	4.	2.	4.	4.
2274:	5.	1.	3.	6.	4.	3.	1.	5.	3.
2283:	5.	3.	1.	3.	4.	4.	3.	7.	7.
2292:	1.	2.	2.	6.	0.	2.	4.	2.	4.
2301:	2.	3.	5.	4.	5.	2.	3.	9.	5.
2310:	3.	5.	3.	2.	3.	4.	2.	5.	7.
2319:	4.	12.	2.	4.	5.	8.	4.	1.	2.
2328:	2.	6.	7.	9.	7.	11.	5.	7.	7.
2337:	2.	5.	2.	3.	3.	2.	4.	3.	2.
2346:	1.	3.	3.	1.	2.	1.	1.	4.	1.
2355:	2.	2.	2.	3.	1.	2.	0.	2.	0.
2364:	1.	3.	5.	3.	4.	3.	3.	2.	2.

% ANTIMONY

1.1652

% ARSENIC

0.0088

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
19-MAY-83 08:47:36

K24C

3042/060 RB

SAMPLE WEIGHT: (UG) 12320.00
ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN RT4
ACQUIRE DATE: 18-MAY-83 22:19:36 GEM 13
PRESFT LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
ELAPSED REAL TIME: 906. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	PKCND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	155.	648.	0.0142	0.0007	4.9
%-ANTIMONY	564.1	98.	25220.	1.1499	0.0090	0.8
%-ARSENIC	559.3	133.	314.	0.0091	0.0007	7.7

	CU	SE	AS
CNTS/UG/MIN AT RD	50.9	13.7	26.52
CENTROID CHANNEL	2043	2236	2236
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2244 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1980:	13.	12.	14.	12.	21.	14.	9.	19.	7.
1997:	12.	9.	15.	15.	16.	9.	13.	12.	12.
2006:	13.	19.	10.	7.	15.	12.	14.	11.	10.
2015:	7.	13.	11.	9.	19.	16.	7.	13.	13.
2024:	16.	9.	7.	15.	9.	6.	10.	14.	12.
2033:	18.	21.	23.	14.	34.	42.	61.	67.	75.
2042:	74.	79.	74.	75.	83.	55.	48.	36.	31.
2051:	30.	24.	18.	14.	8.	8.	16.	8.	11.
2060:	7.	13.	6.	6.	15.	11.	14.	9.	9.
2069:	18.	17.	14.	18.	16.	6.	9.	15.	12.
2078:	6.	15.	12.	16.	11.	16.	14.	11.	19.
2087:	9.	12.	6.	15.	10.	15.	10.	9.	10.
2096:	11.	9.	13.	23.	11.	9.	9.	8.	14.
2105:	9.	9.	8.	15.	8.	4.	8.	12.	11.

% COPPER 0.0142

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

19-MAY-83 08:48:04

K24C

3042/060 KB

SAMPLE WEIGHT: (UG) 12320.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN RT4

ACQUIRE DATE: 18-MAY-83 22:19:36

GEM 13

PRFSLY LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

FLASHED REAL TIME: 906. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

2130:	6.	12.	12.	17.	12.	11.	12.	8.	14.
2139:	8.	11.	7.	15.	13.	11.	13.	10.	8.
2148:	14.	11.	10.	4.	10.	9.	12.	10.	9.
2157:	8.	13.	9.	5.	13.	7.	18.	6.	12.
2166:	9.	11.	9.	9.	9.	16.	9.	10.	8.
2175:	4.	5.	5.	12.	10.	9.	10.	14.	6.
2184:	10.	8.	11.	13.	6.	12.	13.	14.	13.
2193:	10.	14.	7.	9.	8.	10.	10.	11.	11.
2202:	9.	12.	6.	14.	10.	16.	14.	8.	19.
2211:	14.	14.	15.	12.	9.	11.	16.	14.	15.
2220:	11.	10.	14.	18.	9.	11.	12.	9.	15.
2229:	14.	20.	20.	23.	49.	73.	80.	91.	80.
2238:	88.	66.	53.	42.	28.	32.	27.	29.	42.
2247:	49.	66.	78.	158.	303.	740.	1465.	2256.	3377.
2256:	4089.	4338.	3715.	2507.	1408.	722.	240.	87.	26.
2265:	6.	5.	4.	3.	3.	2.	3.	3.	4.
2274:	1.	4.	4.	3.	3.	4.	1.	4.	4.
2283:	5.	3.	6.	1.	3.	4.	5.	4.	4.
2292:	1.	4.	3.	5.	1.	7.	1.	4.	4.
2301:	2.	0.	2.	4.	1.	1.	0.	4.	5.
2310:	1.	2.	3.	4.	4.	4.	2.	3.	3.
2319:	8.	1.	3.	2.	4.	2.	6.	0.	5.
2328:	7.	4.	3.	4.	17.	9.	8.	7.	8.
2337:	5.	1.	2.	2.	5.	2.	1.	4.	2.
2346:	0.	3.	1.	3.	7.	1.	1.	2.	2.
2355:	4.	3.	3.	3.	6.	3.	3.	4.	4.
2364:	3.	3.	4.	4.	3.	3.	4.	3.	4.

% ANTIMONY

1.1499

% ARSENIC

0.0091

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

19-MAY-83 08:49:11

K25A

30427060 RB

SAMPLE WEIGHT: (UG) 12636.00
 ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN RT4
 ACQUIRE DATE: 18-MAY-83 22:34:54 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
 ELAPSED REAL TIME: 907. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
Z-COPPER	511.0	178.	485.	0.0105	0.0006	6.1
% ANTIMONY	564.1	102.	30926.	1.3785	0.0101	0.7
% ARSENIC	559.3	152.	266.	0.0076	0.0007	9.0

	CU	SE	AS
CNLS/UG/MIN AT RD	50.9	13.7	26.52
CENTROID CHANNEL	2045	2256	2737
HALF-THICK	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2242 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L J R
PEAK CHANNELS	13	13	5

1988:	28.	16.	10.	16.	17.	16.	20.	16.	18.
1997:	15.	20.	15.	15.	15.	13.	13.	17.	13.
2006:	12.	10.	12.	12.	18.	9.	19.	22.	15.
2015:	17.	21.	16.	19.	11.	9.	16.	15.	23.
2024:	18.	14.	16.	12.	28.	17.	21.	14.	21.
2033:	13.	17.	35.	12.	31.	32.	37.	38.	56.
2042:	68.	59.	62.	64.	56.	59.	44.	39.	45.
2051:	36.	21.	17.	18.	17.	20.	20.	20.	15.
2060:	21.	21.	17.	13.	16.	11.	4.	11.	8.
2069:	10.	11.	14.	13.	15.	13.	15.	14.	17.
2078:	16.	11.	16.	12.	20.	8.	14.	17.	14.
2087:	11.	13.	12.	11.	13.	16.	9.	14.	7.
2096:	13.	6.	10.	12.	12.	14.	13.	18.	17.
2105:	13.	16.	8.	13.	21.	17.	11.	14.	15.

% COPPER

0.0105

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

19-MAY-83 08:49:40

K25A

30427060 RE

SAMPLE WEIGHT: (UG) 12636.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN RT4

ACQUIRE DATE: 18-MAY-83 22:34:54

GEM 13

PRESET LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

ELAPSED REAL TIME: 907. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

2130:	15.	18.	12.	10.	9.	15.	13.	15.	11.
2139:	12.	8.	11.	11.	8.	17.	11.	12.	14.
2148:	10.	10.	8.	16.	11.	16.	15.	17.	15.
2157:	7.	16.	16.	16.	16.	7.	11.	10.	17.
2166:	12.	12.	11.	11.	14.	6.	13.	12.	10.
2175:	6.	15.	16.	10.	12.	16.	13.	15.	10.
2184:	8.	18.	17.	15.	11.	15.	10.	15.	12.
2193:	13.	19.	11.	14.	20.	15.	11.	10.	10.
2202:	14.	16.	14.	17.	15.	15.	5.	17.	15.
2211:	14.	10.	21.	15.	14.	11.	14.	18.	14.
2220:	21.	18.	18.	20.	18.	15.	13.	21.	14.
2229:	24.	23.	20.	39.	43.	57.	71.	79.	82.
2238:	73.	68.	55.	39.	29.	36.	36.	33.	39.
2247:	63.	66.	97.	205.	391.	832.	1682.	2941.	4196.
2256:	5116.	5211.	4471.	3037.	1768.	822.	356.	114.	28.
2265:	11.	7.	5.	2.	5.	2.	5.	3.	1.
2274:	4.	3.	6.	3.	6.	7.	7.	2.	5.
2283:	3.	5.	7.	3.	8.	6.	8.	1.	2.
2292:	2.	5.	2.	5.	5.	4.	3.	5.	1.
2301:	2.	3.	4.	2.	6.	1.	5.	3.	4.
2310:	2.	0.	0.	4.	8.	3.	4.	4.	3.
2319:	2.	4.	9.	5.	5.	3.	5.	2.	4.
2328:	5.	6.	10.	5.	5.	5.	5.	6.	3.
2337:	3.	1.	2.	4.	5.	1.	1.	3.	6.
2346:	3.	2.	6.	3.	4.	6.	3.	5.	5.
2355:	4.	4.	2.	7.	3.	4.	4.	2.	2.
2364:	2.	2.	3.	5.	1.	4.	6.	2.	2.

% ANTIMONY

1.3785

% ARSENIC

0.0076

FELT LABORATORY WASHINGTON DC
LEAD ANALYSIS
 19 MAY-83 08:50:47

K256

30427060 RE

SAMPLE WEIGHT: (UG) 12750.00
 ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN RT4
 ACQUIRE DATE: 18-MAY-83 22:50:16 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:05:55
 ELAPSED REAL TIME: 907. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	PKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	190.	460.	0.0100	0.0006	6.4
%-ANTIMONY	564.1	112.	31610.	1.4002	0.0102	0.7
%-ARSENIC	559.3	155.	288.	0.0082	0.0007	8.6

	CU	SB	AS
CNIS/UG/MIN AT RD	50.9	13.7	26.52
CENTROID CHANNEL	2043	2256	2236
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2244 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1980:	21.	17.	25.	19.	18.	14.	11.	13.	7.
1997:	17.	21.	17.	15.	16.	23.	13.	17.	13.
2006:	23.	18.	23.	19.	13.	17.	20.	21.	10.
2015:	15.	16.	12.	13.	20.	24.	16.	18.	22.
2024:	24.	15.	18.	13.	16.	15.	22.	17.	18.
2033:	17.	23.	20.	23.	37.	41.	35.	51.	57.
2042:	50.	80.	62.	74.	44.	46.	37.	36.	25.
2051:	33.	25.	19.	16.	13.	17.	17.	20.	14.
2060:	12.	15.	9.	14.	15.	12.	18.	14.	17.
2069:	10.	9.	10.	7.	20.	20.	13.	9.	14.
2078:	9.	11.	11.	13.	17.	20.	10.	14.	14.
2087:	10.	14.	18.	15.	13.	13.	13.	9.	10.
2096:	15.	11.	8.	15.	15.	18.	13.	15.	6.
2105:	16.	9.	11.	18.	14.	14.	15.	14.	11.

% COPPER 0.0100

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

19-MAY-83 08:51:15

K25H

30427060 RE

SAMPLE WEIGHT: (UG) 12750.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN RT4

ACQUIRE DATE: 18-MAY-83 22:50:16

GEM 13

PRESET LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

FLASHED REAL TIME: 907. SEC

KEV/CHNL: 0.2500463

CLASSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

2130:	16.	13.	17.	12.	10.	7.	7.	14.	13.
2139:	11.	11.	13.	22.	14.	12.	8.	18.	12.
2148:	17.	11.	14.	14.	15.	12.	11.	16.	13.
2157:	11.	10.	11.	13.	5.	15.	8.	10.	13.
2166:	13.	12.	22.	10.	13.	2.	11.	7.	9.
2175:	14.	17.	23.	18.	6.	8.	10.	8.	10.
2184:	7.	7.	8.	13.	17.	12.	15.	14.	15.
2193:	12.	19.	12.	10.	14.	14.	18.	17.	7.
2202:	14.	12.	17.	9.	28.	15.	13.	11.	15.
2211:	14.	16.	15.	18.	14.	14.	15.	14.	13.
2220:	22.	14.	20.	15.	19.	23.	23.	21.	20.
2229:	14.	16.	34.	29.	43.	78.	70.	92.	90.
2238:	78.	66.	47.	44.	43.	40.	34.	53.	51.
2247:	48.	84.	109.	189.	432.	908.	1772.	3002.	4277.
2256:	5261.	5347.	4496.	3105.	1789.	833.	311.	120.	37.
2265:	19.	1.	2.	5.	4.	7.	3.	3.	5.
2274:	4.	5.	5.	5.	3.	1.	3.	2.	5.
2283:	3.	3.	3.	3.	4.	1.	8.	6.	6.
2292:	3.	5.	5.	2.	2.	4.	7.	4.	3.
2301:	4.	1.	1.	3.	4.	6.	5.	3.	7.
2310:	6.	2.	5.	5.	8.	3.	3.	4.	0.
2319:	6.	5.	5.	3.	0.	4.	3.	7.	11.
2328:	1.	3.	7.	11.	5.	13.	6.	2.	4.
2337:	6.	6.	5.	3.	4.	3.	2.	8.	2.
2346:	2.	6.	7.	7.	7.	7.	4.	4.	2.
2355:	5.	2.	1.	6.	4.	1.	1.	1.	4.
2364:	2.	5.	4.	4.	4.	6.	2.	2.	5.

% ANTIMONY

1.4002

% ARSENIC

0.0082

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

19 MAY-83 08:52:22

K25C

30427060 KB

SAMPLE WEIGHT: (UG) 12825.00

ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN R14

ACQUIRE DATE: 18-MAY-83 23:05:38 GEM 13

PREFET LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

ELAPSED REAL TIME: 907. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COFFER	511.0	190.	434.	0.0096	0.0006	6.7
%-ANTIMONY	564.1	107.	31466.	1.3894	0.0102	0.7
%-ARSENIC	559.3	135.	294.	0.0084	0.0007	8.1

	CU	SB	AS
CNTS/UG/MIN AT RD	50.9	13.7	26.52
CENTROID CHANNEL	2044	2256	2237
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2245 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1980:	13.	8.	18.	13.	14.	15.	15.	26.	13.
1997:	22.	23.	14.	21.	18.	18.	18.	12.	14.
2006:	18.	16.	17.	18.	16.	19.	20.	19.	12.
2015:	16.	12.	13.	15.	15.	13.	22.	12.	19.
2024:	22.	12.	16.	14.	15.	14.	21.	19.	17.
2033:	23.	23.	13.	23.	30.	31.	40.	42.	54.
2042:	47.	62.	65.	58.	66.	46.	39.	43.	31.
2051:	21.	16.	13.	14.	14.	16.	12.	17.	19.
2060:	9.	22.	10.	18.	11.	12.	13.	14.	10.
2069:	14.	17.	13.	10.	13.	12.	14.	14.	13.
2078:	14.	12.	12.	12.	18.	13.	16.	17.	12.
2087:	17.	10.	16.	13.	9.	8.	8.	19.	18.
2096:	15.	16.	9.	9.	14.	15.	11.	15.	12.
2105:	17.	14.	11.	18.	15.	11.	15.	19.	9.

% COPPER

0.0096

LEAD ANALYSIS

19-MAY-83 08:52:00

K250

3042/060 KB

SAMPLE WEIGHT: (UG) 12825.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN RT4

ACQUIRE DATE: 18-MAY-83 23:05:38

GEM 13

PRESH LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

ELAPSED REAL TIME: 907. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

2130:	12.	11.	15.	15.	11.	18.	12.	3.	10.
2139:	9.	17.	12.	12.	10.	14.	11.	19.	14.
2148:	15.	16.	19.	11.	14.	7.	13.	8.	11.
2157:	12.	14.	16.	8.	10.	10.	12.	17.	12.
2166:	11.	16.	19.	14.	7.	9.	10.	11.	11.
2175:	12.	11.	7.	5.	18.	16.	11.	10.	10.
2184:	13.	8.	11.	14.	15.	15.	19.	9.	8.
2193:	12.	13.	14.	15.	16.	5.	17.	9.	18.
2202:	9.	9.	18.	14.	14.	10.	13.	10.	11.
2211:	7.	20.	13.	14.	13.	9.	13.	9.	16.
2220:	17.	9.	11.	9.	15.	10.	18.	14.	17.
2229:	17.	17.	28.	28.	34.	49.	59.	109.	100.
2238:	78.	69.	55.	55.	42.	43.	47.	36.	55.
2247:	52.	55.	109.	179.	393.	871.	1703.	2988.	4223.
2256:	5260.	5283.	4499.	3137.	1818.	881.	338.	92.	30.
2265:	11.	5.	7.	5.	4.	5.	10.	1.	10.
2274:	1.	3.	4.	3.	4.	6.	3.	4.	2.
2283:	4.	3.	1.	5.	5.	4.	5.	3.	5.
2292:	1.	2.	1.	6.	3.	5.	3.	6.	1.
2301:	1.	7.	7.	5.	4.	3.	5.	3.	4.
2310:	4.	5.	1.	4.	2.	1.	5.	2.	2.
2319:	6.	2.	5.	1.	5.	3.	3.	2.	2.
2328:	5.	7.	4.	3.	9.	7.	7.	6.	4.
2337:	4.	5.	4.	6.	5.	4.	3.	3.	2.
2346:	3.	1.	5.	0.	5.	2.	6.	2.	4.
2355:	3.	3.	2.	3.	5.	4.	4.	4.	2.
2364:	3.	7.	5.	4.	7.	1.	5.	6.	1.

% ANTIMONY

1.3894

% ARSENIC

0.0084

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

19-MAY-83 08:53:58

S404A

30427060 KB

SAMPLE WEIGHT: (UG) 11567.00
 ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN RT4
 ACQUIRE DATE: 18-MAY-83 23:21:00 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
 ELAPSED REAL TIME: 910. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGD	AREA	CONCENTR.	1 SIGMA DEV	% DEV
Z-COPPER	511.0	251.	327.	0.0081	0.0007	8.9
Z-ANTIMONY	564.1	154.	37957.	1.8634	0.0129	0.7
Z-ARSENIC	559.3	191.	3305.	0.1050	0.0022	2.1

	CU	SE	AS
CNTS/UG/MIN AT RD	50.9	13.7	26.52
CENTROID CHANNEL	2044	2256	2237
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2244 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	21.	22.	25.	21.	19.	26.	18.	17.	14.
1997:	27.	19.	26.	30.	26.	25.	25.	30.	27.
2006:	28.	24.	18.	20.	23.	27.	21.	25.	32.
2015:	18.	23.	21.	16.	16.	28.	24.	40.	19.
2024:	17.	19.	19.	19.	20.	29.	25.	26.	15.
2033:	20.	19.	25.	23.	24.	39.	42.	39.	50.
2042:	47.	48.	50.	66.	45.	44.	43.	31.	34.
2051:	28.	31.	34.	14.	23.	15.	18.	22.	23.
2060:	23.	18.	21.	12.	24.	15.	19.	20.	16.
2069:	23.	14.	14.	20.	17.	15.	12.	21.	19.
2078:	15.	23.	19.	17.	23.	21.	17.	15.	15.
2087:	25.	21.	16.	18.	17.	13.	13.	19.	20.
2096:	16.	20.	20.	19.	20.	19.	17.	16.	12.
2105:	22.	16.	23.	29.	18.	26.	15.	19.	18.

% COPPER

0.0081

FEDERAL BUREAU OF INVESTIGATION WASHINGTON DC
LEAD ANALYSIS
19-MAY-83 08:54:26

5404A

30427060 KB

SAMPLE WEIGHT: (UG) 11567.00
ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN RT4
ACQUIRE DATE: 18-MAY-83 23:21:00 GEM 13
PRESET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
ELAPSED REAL TIME: 910. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

2130:	24.	21.	22.	14.	19.	19.	15.	25.	18.
2139:	17.	21.	12.	16.	16.	20.	18.	26.	15.
2148:	12.	19.	12.	18.	15.	20.	20.	17.	21.
2157:	10.	15.	15.	28.	18.	11.	13.	19.	19.
2166:	24.	17.	20.	23.	15.	20.	17.	29.	14.
2175:	15.	12.	10.	14.	15.	18.	14.	20.	14.
2184:	11.	16.	13.	18.	24.	17.	17.	19.	12.
2193:	17.	16.	31.	22.	25.	28.	24.	18.	11.
2202:	16.	15.	14.	15.	23.	17.	21.	24.	14.
2211:	14.	18.	21.	24.	14.	21.	23.	31.	23.
2220:	12.	18.	13.	17.	21.	23.	22.	30.	34.
2229:	35.	43.	63.	149.	242.	447.	665.	769.	817.
2238:	723.	484.	319.	175.	86.	63.	42.	54.	56.
2247:	61.	85.	122.	255.	494.	1087.	2107.	3536.	5204.
2256:	6356.	6418.	5416.	3744.	2115.	1033.	346.	144.	44.
2265:	15.	5.	6.	9.	5.	6.	6.	8.	6.
2274:	6.	9.	2.	3.	3.	5.	10.	9.	5.
2283:	8.	6.	6.	11.	5.	8.	5.	3.	6.
2292:	3.	5.	5.	5.	7.	7.	8.	7.	5.
2301:	13.	7.	5.	4.	5.	6.	7.	3.	13.
2310:	7.	3.	7.	14.	4.	2.	8.	7.	5.
2319:	12.	2.	3.	8.	6.	6.	2.	7.	4.
2328:	3.	11.	13.	14.	10.	6.	6.	16.	4.
2337:	9.	7.	4.	3.	4.	3.	2.	4.	2.
2346:	4.	6.	5.	3.	4.	6.	5.	6.	7.
2355:	5.	3.	2.	3.	7.	5.	5.	4.	7.
2364:	1.	5.	6.	4.	2.	5.	6.	3.	2.

% ANTIMONY 1.8631

% ARSENIC 0.1050

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

19-MAY-83 08:55:33

S604B

J0427060 RB

SAMPLE WEIGHT: (UG) 12421.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN RT4

ACQUIRE DATE: 18-MAY-83 23:36:22

GEM 13

PRESET LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:05:55

ELAPSED REAL TIME: 910. SEC

KEV/CHN: 0.2500463

ELAISED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
Z-COPPER	511.0	278.	302.	0.0070	0.0007	9.8
Z-ANTIMONY	564.1	184.	40289.	1.8469	0.0126	0.7
Z-ARSENIC	559.3	237.	3297.	0.0982	0.0021	2.2

	CU	SB	AS
CNTS/UG/MIN AT RD	50.9	13.7	26.52
CLNTROID CHANNEL	2044	2256	2237
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2244 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	27.	27.	23.	29.	34.	20.	19.	20.	17.
1997:	21.	32.	26.	25.	19.	18.	34.	26.	12.
2006:	22.	23.	16.	23.	23.	14.	23.	26.	26.
2015:	29.	25.	27.	24.	21.	23.	24.	20.	23.
2024:	28.	19.	27.	29.	18.	24.	16.	15.	26.
2033:	29.	21.	23.	33.	27.	35.	40.	45.	51.
2042:	51.	58.	50.	55.	42.	46.	39.	40.	28.
2051:	24.	35.	22.	22.	28.	18.	19.	15.	15.
2060:	28.	12.	9.	17.	21.	22.	16.	19.	21.
2069:	18.	18.	23.	17.	15.	7.	17.	21.	21.
2078:	16.	24.	19.	17.	23.	22.	17.	19.	14.
2087:	13.	15.	17.	18.	18.	19.	21.	18.	21.
2096:	14.	21.	15.	26.	24.	17.	19.	16.	23.
2105:	23.	27.	22.	20.	23.	16.	14.	19.	19.

% COPPER

0.0070

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
19-MAY-83 08:56:02

S604E

3042/060 KB

SAMPLE WEIGHT: (UG) 12421.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN RT4

ACQUIRE DATE: 18-MAY-83 23:36:22

GEM 13

PRESET LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

ELAPSED REAL TIME: 910. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

2130:	19.	15.	18.	19.	17.	18.	17.	18.	19.
2139:	26.	23.	14.	22.	19.	23.	23.	14.	15.
2148:	19.	19.	12.	13.	32.	31.	11.	21.	29.
2157:	23.	17.	20.	26.	23.	15.	18.	24.	21.
2166:	73.	21.	20.	19.	11.	23.	15.	22.	28.
2175:	25.	22.	14.	15.	20.	16.	20.	15.	15.
2184:	17.	20.	21.	13.	13.	28.	16.	27.	17.
2193:	16.	22.	15.	17.	17.	24.	14.	21.	25.
2202:	25.	26.	12.	20.	29.	19.	24.	31.	12.
2211:	23.	16.	15.	19.	18.	24.	27.	19.	25.
2220:	25.	25.	18.	25.	25.	24.	26.	31.	26.
2229:	31.	47.	87.	144.	246.	412.	663.	780.	819.
2238:	720.	501.	314.	170.	97.	60.	53.	56.	58.
2247:	67.	88.	115.	239.	500.	1144.	2210.	3724.	5435.
2256:	6667.	6891.	5881.	3980.	2235.	1095.	472.	130.	42.
2265:	13.	7.	8.	8.	9.	4.	4.	6.	6.
2274:	4.	7.	8.	11.	9.	5.	9.	6.	4.
2283:	6.	4.	5.	7.	6.	8.	6.	9.	7.
2292:	7.	10.	9.	5.	3.	5.	4.	12.	9.
2301:	5.	5.	6.	5.	6.	6.	3.	4.	6.
2310:	6.	6.	3.	6.	3.	7.	2.	6.	7.
2319:	3.	12.	4.	6.	6.	6.	3.	7.	4.
2328:	9.	6.	4.	11.	15.	12.	8.	7.	6.
2337:	7.	5.	5.	9.	7.	7.	1.	8.	5.
2346:	4.	8.	3.	1.	3.	7.	4.	3.	4.
2355:	5.	1.	3.	6.	3.	6.	4.	6.	5.
2364:	5.	4.	2.	3.	4.	9.	3.	3.	6.

% ANTIMONY

1.8467

% ARSENIC

0.0982

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
 19-MAY-83 08:57:09

S6040

3042/060 KB

SAMPLE WEIGHT: (UG) 11662.00
 ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN R14
 ACQUIRE DATE: 18-MAY-83 23:51:44 GEM 13
 PRFSET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
 ELAPSED REAL TIME: 910. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

FLMLNT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	270.	280.	0.00/1	0.0007	10.3
%-ANTIMONY	564.1	158.	37865.	1.8538	0.0129	0.7
%-ARSENIC	559.3	205.	3039.	0.09/1	0.0022	2.2
			CU	SB	AS	
CNIS/UG/MIN AT RD			50.9	13.7	26.57	
CENTROID CHANNEL			2044	2256	2237	
HAIF-LIFE			12.8 H	2.7 D	26.3 H	
BACKGROUND SPACING			50 L&R	80 L&R	30 L	CH 2244 R
BACKGROUND CHANNELS			22 L&R	22 L&R	11 L	1 R
PEAK CHANNELS			13	13	5	

1988:	12.	30.	24.	18.	25.	24.	22.	24.	21.
1997:	23.	25.	23.	27.	14.	16.	15.	22.	73.
2006:	17.	25.	15.	19.	20.	23.	20.	26.	18.
2015:	17.	25.	27.	20.	25.	21.	21.	15.	11.
2024:	27.	18.	18.	23.	22.	20.	16.	14.	23.
2033:	27.	27.	17.	25.	25.	34.	38.	40.	31.
2042:	38.	41.	46.	55.	52.	43.	43.	53.	36.
2051:	28.	26.	23.	16.	15.	27.	22.	22.	14.
2060:	20.	23.	22.	22.	19.	15.	24.	19.	14.
2069:	13.	16.	14.	21.	21.	12.	21.	19.	18.
2078:	21.	17.	8.	21.	20.	25.	27.	20.	20.
2087:	23.	15.	26.	17.	16.	21.	16.	15.	12.
2096:	16.	21.	18.	20.	15.	20.	14.	18.	17.
2105:	14.	19.	19.	15.	13.	19.	14.	18.	17.

% COPPER 0.0071

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
19-MAY-83 08:57:37

S604C

30427060 RB

SAMPLE WEIGHT: (UG) 11662.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN RT4

ACQUIRE DATE: 18-MAY-83 23:51:44

GEM 13

PRESET LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

ELAPSED REAL TIME: 910. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

2130:	16.	17.	13.	23.	13.	21.	20.	21.	13.
2139:	22.	15.	17.	17.	15.	17.	14.	7.	11.
2148:	16.	21.	13.	19.	13.	15.	15.	18.	18.
2157:	15.	21.	9.	22.	10.	17.	14.	17.	20.
2166:	17.	25.	17.	17.	20.	16.	17.	19.	13.
2175:	17.	15.	22.	14.	16.	13.	17.	21.	27.
2184:	15.	21.	25.	12.	16.	24.	15.	15.	25.
2193:	19.	11.	19.	17.	24.	15.	20.	17.	18.
2202:	15.	29.	13.	16.	23.	20.	16.	22.	14.
2211:	20.	17.	22.	12.	16.	20.	22.	16.	27.
2220:	28.	32.	27.	29.	15.	28.	31.	26.	31.
2229:	45.	54.	71.	122.	234.	447.	568.	731.	742.
2238:	630.	505.	297.	154.	87.	58.	36.	63.	69.
2247:	78.	81.	124.	233.	493.	1032.	2017.	3464.	5217.
2256:	6233.	6384.	5352.	3818.	2319.	1076.	385.	153.	48.
2265:	20.	12.	3.	4.	12.	6.	2.	5.	5.
2274:	5.	4.	4.	3.	7.	5.	7.	10.	6.
2283:	9.	9.	11.	4.	8.	5.	8.	5.	9.
2292:	2.	5.	5.	6.	5.	3.	8.	3.	4.
2301:	4.	4.	6.	8.	4.	4.	6.	6.	6.
2310:	11.	6.	4.	9.	7.	4.	6.	6.	1.
2319:	4.	2.	2.	5.	5.	6.	8.	12.	4.
2328:	14.	7.	10.	9.	11.	13.	7.	20.	2.
2337:	9.	2.	3.	9.	3.	8.	6.	5.	3.
2346:	5.	3.	3.	1.	6.	6.	10.	5.	6.
2355:	5.	1.	4.	3.	7.	4.	3.	4.	4.
2364:	4.	5.	2.	1.	4.	7.	2.	4.	3.

% ANTIMONY

1.8538

% ARSENIC

0.0971

FEDERAL BUREAU OF INVESTIGATION WASHINGTON DC
LEAD ANALYSIS
19-MAY-83 08:58:44

5626A

3042/020 RE

SAMPLE WEIGHT: (UG) 12372.00
ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN RT4
ACQUIRE DATE: 19-MAY 83 00:07:06 GEM 13
RESET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
ELAPSED REAL TIME: 905. SEC KEV/CHNL: 0.2500463
ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	PKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
% COPPER	511.0	117.	3299.	0.0796	0.0017	2.1
% ANTIMONY	564.1	67.	15505.	0.7175	0.0067	0.9
% ARSENIC	559.3	92.	83.	0.0025	0.0005	19.7

	CU	SE	AS
CNTS/UG/MIN AT RD	50.9	13.7	26.57
CENTROID CHANNEL	2044	2256	2237
HALF-HEIGHT	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2243 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L L R
PEAK CHANNELS	13	13	5

1980:	13.	8.	8.	11.	9.	16.	12.	14.	9.
1997:	12.	8.	10.	14.	9.	12.	7.	10.	7.
2006:	13.	12.	13.	18.	8.	7.	12.	16.	10.
2015:	15.	13.	7.	13.	15.	7.	13.	8.	23.
2024:	12.	15.	11.	22.	16.	15.	16.	25.	32.
2033:	31.	41.	54.	71.	105.	128.	154.	237.	285.
2042:	310.	360.	380.	372.	327.	282.	237.	197.	147.
2051:	99.	60.	55.	40.	25.	15.	13.	17.	9.
2060:	16.	10.	9.	8.	8.	3.	6.	6.	17.
2069:	7.	7.	8.	5.	9.	8.	6.	8.	4.
2078:	10.	11.	6.	7.	8.	7.	8.	6.	13.
2087:	6.	7.	9.	11.	4.	10.	10.	8.	0.
2096:	8.	4.	10.	7.	9.	8.	7.	7.	8.
2105:	4.	7.	9.	10.	14.	12.	9.	6.	6.

% COPPER

0.0796

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

19-MAY-83 08:59:13

5426A

3042/060 RE

SAMPLE WEIGHT: (UG) 12372.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN RT4

ACQUIRE DATE: 19-MAY-83 00:07:06

GEM 13

PRESET LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

ELAPSED REAL TIME: 905. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0276080 KEV

2130:	9.	4.	15.	7.	7.	8.	2.	8.	8.
2139:	8.	6.	4.	2.	8.	13.	5.	10.	4.
2148:	7.	6.	12.	5.	4.	7.	6.	11.	8.
2157:	6.	10.	6.	4.	4.	9.	6.	4.	6.
2166:	3.	5.	6.	8.	5.	7.	7.	6.	5.
2175:	8.	8.	15.	5.	4.	4.	8.	7.	5.
2184:	10.	12.	6.	8.	10.	11.	5.	7.	5.
2193:	8.	7.	6.	6.	12.	7.	4.	6.	8.
2202:	5.	6.	5.	8.	12.	6.	7.	7.	12.
2211:	10.	14.	5.	6.	5.	3.	5.	7.	6.
2220:	7.	10.	9.	11.	11.	14.	10.	14.	8.
2229:	6.	8.	17.	12.	19.	22.	24.	36.	30.
2238:	27.	22.	24.	18.	19.	14.	23.	19.	31.
2247:	17.	30.	46.	112.	163.	415.	834.	1453.	2180.
2256:	2501.	2592.	2746.	1594.	908.	425.	149.	54.	13.
2265:	6.	4.	3.	2.	1.	2.	6.	6.	4.
2274:	2.	0.	2.	1.	2.	2.	3.	3.	3.
2283:	2.	2.	2.	6.	1.	2.	1.	0.	6.
2292:	1.	3.	2.	3.	5.	3.	0.	2.	1.
2301:	1.	1.	2.	5.	4.	7.	2.	1.	5.
2310:	2.	3.	2.	2.	3.	5.	0.	0.	1.
2319:	2.	6.	4.	0.	0.	7.	3.	5.	6.
2328:	3.	4.	6.	5.	9.	5.	4.	6.	3.
2337:	0.	0.	1.	2.	1.	3.	3.	1.	5.
2346:	2.	2.	3.	5.	1.	2.	2.	2.	3.
2355:	1.	1.	3.	1.	3.	2.	3.	1.	0.
2364:	2.	1.	3.	1.	1.	2.	2.	2.	1.

% ANTIMONY

0.7175

% ARSENIC

0.0025

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
 19-MAY-83 09:00:20

S676H: 3042/060 KB

SAMPLE WIGHT: (UG) 12647.00
 ACTIVATION: 18-MAY-83 09:09:00 NBS 10 MIN RT4
 ACQUIRE DATE: 19-MAY-83 00:22:24 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
 ELAPSED REAL TIME: 904. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
Z-COPPER	511.0	122.	3256.	0.0779	0.0016	2.1
Z-ANTIMONY	564.1	83.	15732.	0.7141	0.0066	0.9
Z-ARSENIC	559.3	60.	122.	0.0036	0.0005	12.8

	CU	SE	AS
CNTS/UG/MIN AT RD	50.9	13.7	26.52
CENTROID CHANNEL	2044	2256	2237
HALF-LIFE	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2242 R
BACKGROUND CHANNELS	27 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1980:	12.	12.	8.	11.	9.	8.	12.	11.	10.
1997:	13.	14.	12.	9.	8.	15.	7.	11.	6.
2006:	11.	9.	15.	7.	13.	9.	11.	7.	15.
2015:	16.	15.	12.	14.	7.	7.	9.	14.	16.
2024:	5.	16.	15.	14.	14.	20.	19.	18.	32.
2033:	21.	44.	61.	73.	102.	143.	164.	251.	296.
2042:	311.	328.	351.	346.	290.	293.	264.	187.	154.
2051:	109.	71.	66.	31.	27.	28.	25.	13.	16.
2060:	7.	15.	8.	7.	4.	7.	7.	3.	12.
2069:	9.	4.	12.	6.	7.	2.	10.	7.	7.
2078:	7.	7.	8.	9.	4.	7.	9.	5.	8.
2087:	7.	11.	11.	5.	3.	11.	9.	6.	10.
2096:	7.	10.	7.	7.	7.	5.	6.	7.	7.
2105:	9.	7.	7.	13.	14.	6.	3.	7.	7.

% COPPER 0.0779

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

19-MAY-83 09:00:48

8426B

30427060 RB

SAMPLE WEIGHT: (UG) 12647.00

ACTIVATION: 18-MAY-83 09:03:00

ACQUIRE DATE: 19-MAY-83 00:22:24

PRESET LIVE TIME: 900. SEC

ELAPSED REAL TIME: 904. SEC

ELAPSED LIVE TIME: 900. SEC

NBS 10 MIN RT4

GEM 13

CALIB DATE: 17-MAY-83 09:35:55

KEV/CHNL: 0.2500463

OFFSET: -0.0226080 KEV

2130:	3.	9.	9.	5.	7.	6.	8.	10.	8.
2139:	7.	6.	9.	7.	8.	11.	8.	8.	5.
2148:	5.	4.	8.	7.	6.	7.	11.	9.	8.
2157:	8.	4.	6.	10.	13.	4.	14.	9.	5.
2166:	5.	6.	8.	6.	6.	9.	11.	9.	4.
2175:	13.	6.	9.	6.	9.	10.	9.	8.	4.
2184:	7.	9.	8.	11.	9.	7.	4.	7.	10.
2193:	9.	4.	6.	6.	9.	4.	8.	5.	10.
2202:	3.	5.	9.	4.	5.	8.	3.	6.	7.
2211:	1.	9.	7.	7.	9.	7.	10.	8.	9.
2220:	3.	9.	12.	12.	12.	11.	10.	8.	7.
2229:	10.	15.	11.	14.	7.	25.	23.	38.	42.
2238:	38.	27.	21.	18.	13.	20.	19.	16.	15.
2247:	28.	39.	51.	93.	205.	431.	793.	1457.	2144.
2256:	2644.	2784.	2235.	1496.	921.	451.	161.	55.	23.
2265:	3.	2.	3.	0.	2.	2.	5.	4.	4.
2274:	5.	0.	4.	3.	2.	7.	3.	4.	3.
2283:	5.	3.	0.	2.	1.	5.	1.	2.	2.
2292:	4.	0.	3.	7.	2.	0.	1.	2.	2.
2301:	6.	1.	2.	2.	3.	1.	1.	0.	0.
2310:	1.	3.	3.	1.	1.	2.	0.	2.	0.
2319:	1.	0.	3.	4.	4.	2.	0.	4.	9.
2328:	2.	4.	3.	4.	7.	5.	4.	4.	5.
2337:	4.	2.	2.	4.	5.	3.	1.	1.	1.
2346:	1.	4.	2.	3.	3.	3.	3.	2.	2.
2355:	1.	4.	4.	2.	0.	1.	1.	0.	1.
2364:	3.	0.	5.	2.	2.	1.	1.	1.	5.

% ANTIMONY 0.7141

% ARSENIC 0.0036

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

19-MAY-83 09:01:55

5626C

30427060 KB

SAMPLE WEIGHT: (UG) 12474.00
 ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN RI4
 ACQUIRE DATE: 19-MAY-83 00:37:42 GEM 13
 PRESET LIVE TIME: 900. SEC CALIB DATE: 17-MAY-83 09:35:55
 ELAPSED REAL TIME: 905. SEC KEV/CHNL: 0.2500463
 ELAPSED LIVE TIME: 900. SEC OFFSET: -0.0226080 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
Z-COPPER	511.0	113.	3113.	0.0766	0.0016	2.1
Z-ANTIMONY	564.1	64.	15791.	0.7287	0.0067	0.9
Z-ARSENIC	559.3	79.	136.	0.0041	0.0005	12.7

	CU	SE	AS
CNTS/UG/MIN AT RD	50.9	13.7	26.52
CENTROID CHANNEL	2044	2256	2237
HALF LILL	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&R	80 L&R	30 L CH 2243 R
BACKGROUND CHANNELS	22 L&R	22 L&R	11 L 1 R
PEAK CHANNELS	13	13	5

1988:	8.	8.	11.	9.	10.	11.	8.	8.	12.
1997:	13.	11.	13.	8.	10.	12.	17.	15.	9.
2006:	14.	10.	15.	6.	14.	6.	12.	10.	11.
2015:	10.	11.	15.	10.	8.	11.	12.	12.	13.
2024:	9.	12.	13.	9.	7.	14.	10.	19.	38.
2033:	31.	41.	57.	75.	102.	130.	186.	230.	271.
2042:	310.	305.	321.	346.	322.	276.	226.	169.	134.
2051:	91.	75.	49.	47.	31.	30.	17.	18.	13.
2060:	18.	14.	9.	7.	5.	5.	10.	8.	5.
2069:	9.	11.	10.	8.	9.	13.	6.	8.	3.
2078:	12.	6.	12.	10.	7.	8.	10.	6.	6.
2087:	12.	2.	8.	5.	5.	6.	10.	5.	8.
2096:	6.	6.	9.	9.	6.	3.	8.	3.	7.
2105:	5.	8.	7.	7.	10.	9.	4.	7.	5.

% COPPER 0.0766

FEDERAL BUREAU OF INVESTIGATION WASHINGTON DC
 LEAD ANALYSIS
 19-MAY-83 09:02:24

56260

30427060 KB

SAMPLE WEIGHT: (UG) 12474.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN RT4

ACQUIRE DATE: 19-MAY-83 00:37:42

GEM 13

PRESET LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:35:55

ELAPSED REAL TIME: 905. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

2130:	3.	2.	4.	11.	5.	4.	11.	7.	9.
2139:	7.	8.	6.	6.	7.	6.	5.	3.	6.
2148:	10.	6.	8.	8.	12.	8.	8.	7.	9.
2157:	6.	5.	6.	15.	3.	8.	6.	7.	9.
2166:	6.	8.	10.	4.	5.	4.	7.	7.	8.
2175:	2.	11.	3.	5.	7.	5.	8.	5.	4.
2184:	5.	4.	8.	9.	7.	4.	6.	4.	7.
2193:	5.	11.	8.	8.	5.	9.	8.	10.	3.
2202:	6.	5.	8.	6.	5.	17.	4.	11.	7.
2211:	12.	3.	6.	7.	7.	16.	7.	7.	3.
2220:	9.	5.	6.	9.	7.	10.	7.	4.	14.
2229:	6.	7.	8.	14.	19.	19.	31.	29.	47.
2238:	46.	31.	19.	14.	18.	10.	23.	21.	25.
2247:	26.	33.	49.	92.	212.	461.	913.	1427.	2201.
2256:	2668.	2711.	2214.	1555.	860.	383.	163.	52.	14.
2265:	8.	5.	3.	3.	3.	3.	1.	2.	2.
2274:	3.	3.	5.	2.	1.	5.	4.	3.	2.
2283:	4.	0.	3.	5.	1.	1.	5.	2.	4.
2292:	2.	2.	4.	3.	2.	0.	3.	0.	1.
2301:	3.	4.	5.	1.	1.	4.	0.	2.	4.
2310:	1.	3.	5.	2.	0.	1.	3.	4.	2.
2319:	3.	9.	0.	0.	2.	1.	6.	2.	0.
2328:	2.	3.	5.	5.	8.	5.	6.	6.	0.
2337:	1.	3.	2.	1.	4.	5.	0.	5.	1.
2346:	2.	1.	4.	2.	1.	5.	5.	4.	2.
2355:	5.	0.	2.	3.	3.	1.	6.	1.	5.
2364:	1.	1.	2.	1.	4.	2.	2.	3.	2.

% ANTIMONY

0.7287

% ARSENIC

0.0041

FBI LABORATORY WASHINGTON DC LEAD ANALYSIS

19 MAY-83 09:03:31

BLANK

00427060 RB

SAMPLE WEIGHT: (UG) 12000.00

ACTIVATION: 18-MAY-83 09:03:00 NBS 10 MIN R14

ACQUIRE DATE: 19-MAY-83 00:53:00 GEM 13

PRESLT LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:05:55

ELAPSED REAL TIME: 901. SEC

KEV/CHNL: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226000 KEV

ELEMENT	PEAK ENERGY	BKGND	AREA	CONCENTR.	1 SIGMA DEV	% DEV
Z-COPPER	511.0	18.	44.	0.0011	0.0002	20.2
Z-ANTIMONY	564.1	12.	19.	8.9417E-04	3.1692E-04	35.4
Z-ARSENIC	559.3	13.	7.	2.2473E-04	1.8339E-04	81.6

	CU	SB	AS
CNIS/UG/MIN AT RD	50.9	13.7	26.52
CENTROID CHANNEL	2044	2250	2237
HALF-LLIL	12.8 H	2.7 D	26.3 H
BACKGROUND SPACING	50 L&K	80 L&K	30 L CH 2245 R
BACKGROUND CHANNELS	22 L&K	22 L&K	11 L 1 R
PEAK CHANNELS	13	13	5

1980:	0.	1.	2.	2.	1.	4.	0.	0.	0.
1997:	0.	0.	0.	2.	1.	1.	2.	0.	0.
2006:	2.	1.	3.	2.	2.	1.	1.	1.	0.
2015:	2.	1.	2.	4.	0.	1.	1.	1.	3.
2024:	0.	1.	2.	3.	2.	1.	1.	2.	2.
2033:	1.	1.	1.	0.	0.	3.	8.	1.	3.
2042:	3.	7.	11.	8.	2.	7.	2.	4.	3.
2051:	1.	3.	3.	0.	1.	3.	1.	2.	2.
2060:	0.	0.	2.	1.	3.	3.	1.	2.	1.
2069:	1.	2.	2.	0.	2.	1.	1.	2.	0.
2078:	1.	4.	1.	5.	0.	2.	1.	0.	2.
2087:	2.	1.	4.	6.	2.	0.	3.	1.	1.
2096:	0.	1.	2.	0.	3.	1.	3.	0.	2.
2105:	1.	1.	0.	1.	0.	0.	2.	0.	0.

% COPPER

0.0011

FBI LABORATORY WASHINGTON DC
LEAD ANALYSIS
19-MAY-83 09:03:59

E:LANK

30427060 KB

SAMPLE WEIGHT: (UG) 12000.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN RI4

ACQUIRE DATE: 19-MAY-83 00:53:00

GEM 13

PRESET LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:05:55

ELAPSED REAL TIME: 901. SEC

KEV/CHNL: 0.2500463

FLAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226080 KEV

2130:	1.	1.	3.	1.	0.	1.	2.	2.	0.
2139:	1.	1.	1.	1.	1.	1.	1.	4.	0.
2148:	0.	2.	1.	1.	1.	1.	2.	1.	1.
2157:	1.	0.	1.	1.	0.	1.	0.	1.	1.
2166:	1.	2.	1.	3.	1.	1.	2.	0.	0.
2175:	0.	0.	1.	0.	1.	1.	0.	2.	1.
2184:	1.	1.	1.	0.	0.	0.	2.	0.	1.
2193:	0.	0.	0.	3.	4.	2.	1.	1.	2.
2202:	0.	0.	3.	1.	2.	1.	0.	1.	1.
2211:	2.	2.	2.	4.	1.	1.	0.	2.	2.
2220:	1.	2.	4.	3.	0.	1.	1.	1.	1.
2229:	1.	2.	1.	0.	0.	3.	2.	1.	3.
2238:	2.	2.	0.	1.	3.	0.	0.	0.	3.
2247:	1.	1.	1.	1.	1.	0.	2.	6.	4.
2256:	2.	4.	1.	1.	4.	3.	0.	2.	2.
2265:	0.	0.	0.	2.	0.	2.	1.	2.	2.
2274:	1.	1.	1.	1.	1.	2.	1.	1.	0.
2283:	5.	0.	1.	0.	0.	1.	3.	0.	0.
2292:	1.	1.	2.	2.	0.	3.	1.	1.	1.
2301:	0.	0.	1.	1.	3.	1.	0.	2.	1.
2310:	1.	0.	0.	0.	1.	0.	0.	0.	0.
2319:	1.	2.	0.	4.	2.	2.	2.	2.	1.
2328:	1.	3.	6.	4.	3.	1.	3.	2.	1.
2337:	0.	2.	2.	2.	0.	0.	2.	0.	1.
2346:	0.	0.	0.	0.	2.	2.	1.	1.	2.
2355:	0.	1.	3.	0.	1.	1.	1.	0.	0.
2364:	0.	0.	1.	0.	1.	1.	0.	1.	1.

% ANTIMONY

0.0009

% ARSENIC

0.0002

FBI LABORATORY WASHINGTON DC

LEAD ANALYSIS

19-MAY-83 09:05:06

E:GJ

30427060 KB

SAMPLE WEIGHT: (UG) 12000.00

ACTIVATION: 18-MAY-83 09:03:00

NBS 10 MIN RT4

ACQUIRE DATE: 19-MAY-83 01:08:13

GEM 13

PRESET LIVE TIME: 900. SEC

CALIB DATE: 17-MAY-83 09:05:55

ELAPSED REAL TIME: 901. SEC

KEV/CHN: 0.2500463

ELAPSED LIVE TIME: 900. SEC

OFFSET: -0.0226000 KEV

ELEMENT	PEAK ENERGY	BKGD	AREA	CONCENTR.	1 SIGMA DEV	% DEV
%-COPPER	511.0	14.	25.	6.6766E-04	1.9070E-04	28.6
%-ANTIMONY	564.1	21.	9.	4.4939E-04	3.4334E-04	76.4
%-ARSENIC	559.3	16.	6.	2.0434E-04	1.9891E-04	97.3
			CU	SB	AS	
CNLS/UG/MIN AT RD			50.9	13.7	26.52	
CENTROID CHANNEL			2042	2257	2238	
HALF LIFE			12.8 H	2.7 D	26.3 H	
BACKGROUND SPACING			50 L&K	80 L&K	30 L	CH 2245 R
BACKGROUND CHANNELS			22 L&K	22 L&K	11 L	1 R
PEAK CHANNELS			13	13	5	

1988:	1.	3.	0.	2.	0.	1.	0.	0.	1.
1997:	2.	2.	1.	1.	3.	1.	0.	2.	1.
2006:	0.	0.	2.	2.	2.	0.	1.	3.	1.
2015:	1.	2.	2.	4.	3.	0.	4.	1.	1.
2024:	2.	1.	1.	1.	1.	1.	1.	2.	1.
2033:	1.	1.	1.	2.	2.	3.	3.	3.	3.
2042:	3.	3.	6.	2.	4.	3.	2.	1.	1.
2051:	2.	1.	0.	1.	0.	1.	0.	1.	0.
2060:	1.	0.	4.	0.	2.	1.	2.	1.	0.
2069:	0.	0.	0.	1.	1.	3.	1.	1.	2.
2078:	2.	1.	0.	0.	1.	1.	2.	1.	2.
2087:	2.	1.	3.	0.	0.	1.	1.	0.	1.
2096:	1.	3.	1.	0.	3.	3.	1.	0.	2.
2105:	2.	0.	0.	1.	0.	1.	0.	0.	4.

% COPPER

0.000%

12 MAY 83 09:01:54

SECRET

011311: 0.0226080 K1 V

4 月 20 日 晴 風 和 日 麗 溫 度 25℃

REPORT
of the

Mr. Asbury

FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D. C. 20535

To

MF

Sheriff of Tehama County
Post Office Box 729
Red Bluff, California 96080

May 23, 1983

Attention:

Detective

FBI FILE NO

LAB NO

30427060 8 RB

LOCAL & STATE

Re

b7C

[Redacted] - SUSPECT;
DASHELL LEE WARD - VICTIM;
HOMICIDE

YOUR NO

Examination requested by

Addressee

Reference

Letter dated April 21, 1983

Examination requested

Instrumental Analysis

Specimens:

Q1 Fired bullet

K1-K25 Twenty-five unfired bullets

Result of examination:

The Q1 bullet and the K1 through K25 bullets were analyzed by neutron activation analysis for their elemental compositions.

The composition of the Q1 bullet is substantially different from the compositions of the K1 through K25 bullets. This compositional difference is not consistent with Q1 originating from the same homogeneous source of lead as any of the K1 through K25 bullets.

95-255509-2

Page 1

(over)

This examination has been made with the understanding that the evidence is connected with an official investigation of a criminal matter and that the Laboratory report will be used for official purposes only, related to the investigation or a subsequent criminal prosecution. Authorization cannot be granted for the use of the Laboratory report in connection with a civil proceeding.

RAA
RAA:yjm* (4)

Specimen Q1 has been returned to your office.
The remaining submitted items are being returned to
your office under separate cover by registered mail.

RECORDED
5/2/83
yjm*

4/27/83

b7C

FEDERAL BUREAU OF INVESTIGATION
UNITED STATES DEPARTMENT OF JUSTICE

Laboratory Work Sheet

MAY 19 A.M.

To: Sheriff of Tehama County
Post Office Box 729
Red Bluff, California 96080

b7C

Attention: [REDACTED]
Detective

FBI FILE NO.

LAB NO.

YOUR NO.

95-2 55509-2
30427060 S RB

Re: [REDACTED] - SUSPECT;
RASHELL LEE WARD - VICTIM;
HOMICIDE

Examination by

Examination requested by

Addressee

Reference.

Letter dated April 21, 1983

Examination requested:

Instrumental Analysis

Specimens received:

Specimens:

Q1 Fired bullet

K1-K25 Twenty-five unfired bullets

SAMPLE	SAM.WT.	% COPPER	% ANTIMONY	% ARSENIC
FCI	12000.000	0.00037	0.00000	0.00000
Q1A	12080.000	0.03736	4.18051	0.07287
Q1B	12631.000	0.03628	4.16127	0.07510
Q1C	12145.000	0.03751	4.21173	0.07668
		0.000670 SD	0.025466 SD	0.001914 SD
		1.808100 %RSD	0.608577 %RSD	2.555685 %RSD
K1A	13097.000	0.01247	1.13590	0.00949
K1B	12210.000	0.01153	1.16435	0.01033
K1C	12390.000	0.01217	1.15006	0.01036
		0.000480 SD	0.014228 SD	0.000498 SD
		3.979199 %RSD	1.237067 %RSD	4.946274 %RSD
K2A	12206.000	0.01223	1.16662	0.00989
K2B	12696.000	0.01183	1.14342	0.00956
K2C	12834.000	0.01212	1.14076	0.00895
		0.000206 SD	0.014228 SD	0.000478 SD
		1.706350 %RSD	1.236979 %RSD	5.046875 %RSD
K3A	12857.000	0.01090	1.33761	0.01016
K3B	12500.000	0.01047	1.35860	0.01155
K3C	12676.000	0.01095	1.34058	0.01261
		0.000262 SD	0.011358 SD	0.001233 SD
		2.436315 %RSD	0.844084 %RSD	10.781648 %RSD
K4A	12670.000	0.00946	1.38756	0.00896
K4B	13306.000	0.01006	1.37158	0.00930
K4C	12603.000	0.00953	1.37603	0.00864
		0.000329 SD	0.008251 SD	0.000329 SD
		3.394954 %RSD	0.598575 %RSD	3.665570 %RSD
K5A	12963.000	0.01247	1.14091	0.00865
K5B	12834.000	0.01224	1.15939	0.00999
K5C	13192.000	0.01159	1.14557	0.00978
		0.000457 SD	0.009612 SD	0.000770 SD
		3.772997 %RSD	0.836856 %RSD	7.601356 %RSD
K6A	12010.000	0.01324	1.17661	0.01013
K6B	12801.000	0.01260	1.14007	0.00951
K6C	12340.000	0.01132	1.14609	0.00952

0.000979 SD	0.019191 SD	0.000354 SD
7.903361 %RSD	1.697316 %RSD	3.647059 %RSD

K7A	13279.000	0.01168	1.13166	0.00921
K7B	13218.000	0.01282	1.13228	0.01051
K7C	12913.000	0.01206	1.14021	0.00959

1m

0.000580 SD	0.004344 SD	0.000672 SD
4.763235 %RSD	0.382281 %RSD	6.874624 %RSD

K8A	13338.000	0.01055	1.34341	0.01019
K8B	12395.000	0.01100	1.34853	0.01277
K8C	12398.000	0.01100	1.34820	0.01276

2

0.000263 SD	0.002867 SD	0.001485 SD
2.419515 %RSD	0.212852 %RSD	12.470192 %RSD

K9A	12359.000	0.01126	1.14513	0.00971
K9B	12517.000	0.01337	1.15085	0.00960
K9C	12600.000	0.01267	1.13826	0.00988

1

0.001074 SD	0.006305 SD	0.000140 SD
8.641706 %RSD	0.550807 %RSD	1.438572 %RSD

K10A	12676.000	0.01223	1.14208	0.00919
K10B	12597.000	0.01203	1.13908	0.00889
K10C	12471.000	0.01229	1.15721	0.00904

1

0.000135 SD	0.009714 SD	0.000151 SD
1.110248 %RSD	0.847558 %RSD	1.666164 %RSD

K11A	12605.000	0.00869	1.36518	0.00795
K11B	12684.000	0.01081	1.38556	0.00814
K11C	12946.000	0.00973	1.37325	0.00905

3

0.001063 SD	0.010260 SD	0.000589 SD
10.909948 %RSD	0.746392 %RSD	7.029010 %RSD

K12A	12894.000	0.01197	1.14825	0.00894
K12B	13009.000	0.01180	1.14628	0.01087
K12C	12385.000	0.01330	1.15767	0.01003

1

0.000820 SD	0.006088 SD	0.000964 SD
6.634532 %RSD	0.529019 %RSD	9.694160 %RSD

K13A	13122.000	0.01038	1.36068	0.00870
K13B	12639.000	0.01012	1.38570	0.00917
K13C	13438.000	0.00992	1.36557	0.00880

3

0.000232 SD	0.013262 SD	0.000244 SD
2.291370 %RSD	0.967540 %RSD	2.747806 %RSD

K14A	12590.000	0.01024	1.3517	0.00891
K14B	12768.000	0.01142	1.3592	0.01119
K14C	12897.000	0.01026	1.34685	0.00993

0.01064	1.35249	0.01001
0.000676 SD	0.006292 SD	0.001144 SD
6.354471 %RSD	0.465229 %RSD	11.425330 %RSD

K15A	12599.000	0.00980	1.35100	0.00961
K15B	12657.000	0.01071	1.35265	0.00828
K15C	12607.000	0.01009	1.36126	0.00859

0.01020	1.35497	0.00882
0.000466 SD	0.005512 SD	0.000695 SD
4.564414 %RSD	0.406814 %RSD	7.879403 %RSD

S604A	12496.000	0.00824	1.80841	0.09811
S604B	11883.000	0.00754	1.84479	0.10191
S604C	12158.000	0.00721	1.86340	0.10019

0.00766	1.83887	0.10007
0.000527 SD	0.027971 SD	0.001906 SD
6.877247 %RSD	1.521120 %RSD	1.904437 %RSD

S626A	10917.000	0.07896	0.71914	0.00301
S626B	12539.000	0.07839	0.71819	0.00251
S626C	12633.000	0.07679	0.72257	0.00317

0.07805	0.71976	0.00290
0.001122 SD	0.002302 SD	0.000340 SD
1.437193 %RSD	0.319779 %RSD	11.725375 %RSD

BLANK	12000.000	0.00111	0.00000	0.00002
HC2	12000.000	0.00100	0.00000	0.00001

SH/AS
RATIO

SAMPLE

BC1	XXX
Q1A	57.
Q1B	55.
Q1C	55.
K1A	120.
K1B	113.
K1C	111.
K2A	118.
K2B	120.
K2C	127.
K3A	132.
K3B	118.
K3C	106.
K4A	155.
K4B	148.
K4C	159.
K5A	132.
K5B	116.
K5C	117.
K6A	116.
K6B	120.
K6C	120.
K7A	123.
K7B	100.
K7C	119.
K8A	132.
K8B	106.
K8C	106.
K9A	118.
K9B	120.
K9C	115.
K10A	124.
K10B	128.
K10C	120.
K11A	172.
K11B	170.
K11C	152.
K12A	120.
K12B	105.
K12C	115.
K13A	156.
K13B	151.
K13C	155.
K14A	152.
K14B	121.
K14C	136.
K15A	141.
K15B	163.
K15C	158.
S604A	18.
S604B	18.
S604C	19.
S626A	239.
S626B	286.
S626C	228.
BLANK	0.
EG2	0.

SAMPLE	SAM.WT.	%-COPPER	%-ANTIMONY	%-ARSENIC
BGL	12000.000	0.00040	0.00000	0.00007
Q1D	10253.000	0.03892	4.23950	0.07549
Q1F	12618.000	0.03733	4.21690	0.07404
Q1F	11322.000	0.04033	4.24465	0.07522
		0.03886	4.23368	0.07492
		0.001500 SD	0.014765 SD	0.000773 SD
		3.860042 %RSD	0.348756 %RSD	1.031924 %RSD
K16A	12413.000	0.01000	1.37058	0.00896
K16B	12355.000	0.01099	1.39303	0.00810
K16C	13003.000	0.00963	1.37401	0.00981
		0.01021	1.37921	0.00896
		0.000704 SD	0.012094 SD	0.000858 SD
		6.897005 %RSD	0.876914 %RSD	9.573393 %RSD
K17A	13073.000	0.01074	1.36180	0.01218
K17B	12498.000	0.01101	1.37197	0.01094
K17C	12620.000	0.00988	1.37399	0.01138
		0.01054	1.36925	0.01150
		0.000591 SD	0.006537 SD	0.000629 SD
		5.604161 %RSD	0.477392 %RSD	5.472552 %RSD
K18A	12865.000	0.01291	1.15908	0.00855
K18B	12675.000	0.01103	1.15965	0.00836
K18C	12553.000	0.01350	1.14506	0.01054
		0.01248	1.15460	0.00915
		0.001291 SD	0.008264 SD	0.001209 SD
		10.341118 %RSD	0.715736 %RSD	13.220077 %RSD
K19A	12681.000	0.01097	1.38727	0.00832
K19B	12442.000	0.01002	1.38083	0.00835
K19C	12795.000	0.00990	1.38109	0.00915
		0.01029	1.38306	0.00860
		0.000584 SD	0.003648 SD	0.000471 SD
		5.674495 %RSD	0.263744 %RSD	5.479883 %RSD
K20A	13095.000	0.01034	1.35686	0.00844
K20B	13039.000	0.00980	1.39003	0.00879
K20C	12575.000	0.00990	1.36514	0.00867
		0.01001	1.37068	0.00863
		0.000288 SD	0.017263 SD	0.000176 SD
		2.871686 %RSD	1.259470 %RSD	2.042245 %RSD
K21A	12592.000	0.01262	1.15543	0.00955
K21B	12918.000	0.01369	1.18700	0.00845
K21C	12511.000	0.01349	1.16806	0.00983

0.000571 SD	0.015888 SD	0.000730 SD
4.300520 %RSD	1.357731 %RSD	7.871119 %RSD

K22A	12843.000	0.00993	1.37295	0.00904
K22B	13049.000	0.01032	1.34318	0.00822
K22C	12184.000	0.01047	1.37916	0.00927

0.01024	1.36510	0.00884
0.000276 SD	0.019230 SD	0.000549 SD
2.698069 %RSD	1.408718 %RSD	6.206480 %RSD

K23A	12218.000	0.00982	1.37435	0.00863
K23B	12863.000	0.01108	1.37229	0.00892
K23C	13768.000	0.01053	1.39456	0.00882

0.01048	1.38040	0.00879
0.000634 SD	0.012306 SD	0.000143 SD
6.054557 %RSD	0.891475 %RSD	1.627717 %RSD

K24A	12359.000	0.01318	1.15850	0.01037
K24B	13424.000	0.01199	1.16519	0.00881
K24C	12320.000	0.01425	1.14987	0.00913

0.01314	1.15786	0.00944
0.001132 SD	0.007680 SD	0.000824 SD
8.615757 %RSD	0.663280 %RSD	8.734277 %RSD

K25A	12636.000	0.01054	1.37849	0.00758
K25B	12750.000	0.01004	1.40018	0.00819
K25C	12825.000	0.00956	1.38944	0.00838

0.01005	1.38937	0.00805
0.000491 SD	0.010845 SD	0.000416 SD
4.886967 %RSD	0.780597 %RSD	5.166546 %RSD

S604A	11567.000	0.00809	1.86340	0.10502
S604B	12421.000	0.00705	1.84691	0.09823
S604C	11662.000	0.00707	1.85382	0.09711

0.00740	1.85471	0.10012
0.000596 SD	0.008284 SD	0.004283 SD
8.049122 %RSD	0.446648 %RSD	4.277351 %RSD

S626A	12372.000	0.07957	0.71749	0.00252
S626B	12647.000	0.07790	0.71407	0.00364
S626C	12474.000	0.07656	0.72868	0.00415

0.07801	0.72008	0.00343
0.001509 SD	0.007643 SD	0.000833 SD
1.934345 %RSD	1.061387 %RSD	24.238182 %RSD

BLANK	12000.000	0.00115	0.00089	0.00022
RCZ	12000.000	0.00067	0.00045	0.00020

UG % SN

30427060 PB

BG 1 12000 0 000000

30427060 PB

01A 12080 1 443579

01B 12631 1 426769

01C 12145 1 348669

AVERAGE 12285 1 406329

%PSD 3 60

30427060 RB

F1A 13097 440949

F1B 12210 494649

F1C 12390 537729

AVERAGE 12565 491109

%PSD 9 87

30427060 PB

F2A 12206 387299

F2B 12696 332399

F2C 12834 416599

AVERAGE 12578 378766

%PSD 11 28

30427060 RB

F3A 12857 298889

F3B 12500 394629

F3C 12676 416669

AVERAGE 12677 370063

%PSD 16 92

30427060 PB

F4A 12670 335889

F4B 13306 359479

F4C 12603 425189

AVERAGE 12859 371519

%PSD 12 38

30427060 RB

F5A 12963 444739

F5B 12834 392589

F5C 13192 434429

AVERAGE 12996 423919

%PSD 6 51

30427060 RB

604A 12496 550199

604B 11883 426349

604C 12158 513429

AVERAGE 12179 499993

%PSD 11 62

30427060 RB

BLANK 12000 - 006739 .

30427060 RB

BG2 12000 005879

SEM/XRF Exam Sheet

Lab # 30427060

SEM/XRF # 222

Examiner



b7C

Date In 5/4/83

Date Out 5/6/83

Specimens - Q1, 604 std

Request - Compare Sn, Sb ratios

see attached data for results

of Spectra. — 4 pages ratio data

of Micrographs —

Time 2

39 SEM			
49 X-Ray Methods	2	7	

SPECTRUM Q1RB-48

MAY 4, 1983

REGION (KEV)	INTEGRAL	CTS/SEC	RATIO
23.84 - 24.40	7.1800E 02	718.00	1.0000 - Background
24.84 - 25.44	3.8780E 03	3878.00	5.4011 - Sn/BK
25.88 - 26.56	6.6370E 03	6637.00	9.2437 - Sb/BK

RATIO REGION IS 23.84-24.40KEV

928
161

1644

SPECTRUM 604RB2-48

MAY 4, 1983

REGION (KEV)	INTEGRAL	CTS/SEC	RATIO
23.84 - 24.40	6.4200E 02	642.00	1.0000 - Background
24.84 - 25.44	2.1580E 03	2158.00	3.3614 - Sn/BK
25.88 - 26.56	3.3650E 03	3365.00	5.2414 - Sb/BK

RATIO REGION IS 23.84-24.40KEV

SPECTRUM 604RB2-4B/Q1

MAY 4, 1983

REGION (KEV)	INTEGRAL	CTS/SEC	RATIO
23.84 - 24.40	6.4200E 02	642.00	0.8942 Background 604/Q1
24.84 - 25.44	2.1580E 03	2158.00	0.5565 Sn 604/Q1
25.88 - 26.56	3.3650E 03	3365.00	0.5070 Sb 604/Q1

RATIOED TO OVERLAY SPECTRUM

SPECTRUM Q1RB-48

MAY 4, 1983

REGION (KEV)	INTEGRAL	CTS/SEC	RATIO
24.84 - 25.44	3.8780E 03	19.39	1.0000 ^{Sn}
25.88 - 26.56	6.6370E 03	33.19	1.7114 ^{Sb/Sn}

RATIO REGION IS 24.84-25.44KEV

SPECTRUM 604RB-48

MAY 4, 1983

REGION (KEV)	INTEGRAL	CTS/SEC	RATIO
24.84 - 25.44	2.1580E 03	10.79	1.0000 ^{Sn}
25.88 - 26.56	3.3650E 03	16.83	1.5593 ^{Sb/Sn}

RATIO REGION IS 24.84-25.44KEV

~~SPECTRUM 604RB-48/Q1~~~~MAY 4, 1983~~

REGION (KEV)	INTEGRAL	CTS/SEC	RATIO
24.84 - 25.44	2.1580E 03	10.79	0.5565 ^{Sn} 604/Q1
25.88 - 26.56	3.3650E 03	16.83	0.5070 ^{Sb} 604/Q1

~~RATIOED TO OVERLAY SPECTRUM~~

SPECTRUM Q1RB-48

MAY 4, 1983

SPECTRUM ID	CHI SQUARED	COMMENTS
----------------	----------------	----------

1 Q1RB-48	0.0	48 55K .38MA 4.0D VAC SLIDE
2 604RB2-48	1.7	SAME
3 604RB-48	1.7	48 55K .38MA 4.0D VAC SLIDE

ONLY SPECTRA CONTAINING SN AND SB WERE EXAMINED.

SPECTRUM Q1RB-48

MAY 4, 1983

SPECTRUM Q1RB-48
Q-Matched to 604 std. MAY 4, 1983

ELEMENT	CONCENTRATION	REGION
SN(Z=50)	0.9401	622- 637
SB(Z=51)	3.720	648- 665

604 std. As - .1 %
Sn - .5 %
Sb - 1.8 %
Pb - 97.6 %

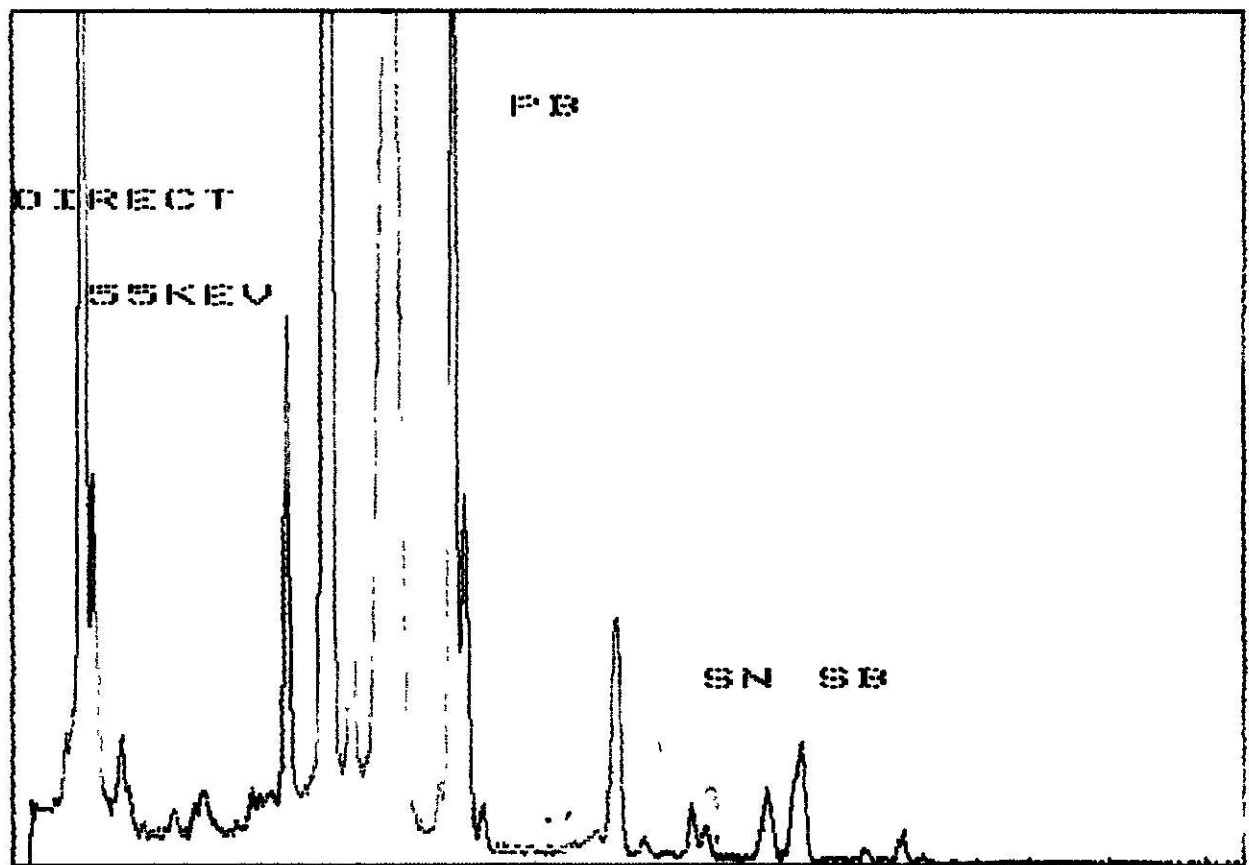
QUANTEX-RAY GRAPHICS

30427060

Q1

PR= 1008 100SEC 0 INT

V=2048 H=40KEV 1:30 AQ=40KEV 10



< 0.00KEV

YES

40.96KEV>

30427060

Q1

CASB BULLET

VERY HARD

ANY TW?

604

159.6N

1.89.2b

••

0-4a (Rev 8-6-82)
FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D C 20535

DATE **May 10, 1983**

Re

[REDACTED] - SUSPECT;
RASHELL LEE WARD - VICTIM;
HOMICIDE

Sheriff of Tehama County
Post Office Box 729
Red Bluff, California 96080

b7C

Attention: [REDACTED]
Detective

Invoice of Contents

b7C

01

MAY 10 1983

Shipping # 13098082195
Shipping Method _____

RAA:yjm (4)

MAY 10 1983

☒ Return to [REDACTED]
Room 3342 TL 241
FBI File # 95-255509
Case # 30427060 B RB

Your # _____
Ext _____

☐ Mail Room 1B327, TL 152
(registered mail)

☐ PSM - Supply Unit, 1B353
(not registered)

FBI/DOJ

DATE **May 23, 1983**

Re

[REDACTED] - **SUSPECT;**
RASHELL LEE WARD - VICTIM;
HOMICIDE

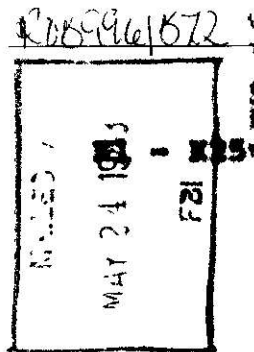
TO

Sheriff of Tehama County
Post Office Box 729
Red Bluff, California 96080

b7C

Attention: [REDACTED]

Detective



Invoice of Contents

b7C

☒ Return to [REDACTED]
Room 3342 TL 241
FBI File # 95-255509
Case # 30427060 - RB
Your # _____
Ext _____

☐ Mail Room 1B327, TL 152
(registered mail)

☐ PSM - Supply Unit 1B353
(not registered)

Shipping # _____
Shipping Method _____

5/23/83

RAA:yjbn(4)

FBI/DOJ

Tehama County Sheriff's Department

RON E. KOENIG
SHERIFF

LOCAL & STATE

W November 1, 1984

Federal Bureau of Investigation
10th and Pennsylvania Avenue
Washington, D. C. 20535

Attn: Special Agent [REDACTED]
Laboratory Division

b7C

41106001 - S

b7C

Dear [REDACTED] Rashell Lee Ward

On March 3, 1983 a homicide occurred in Tehama County (our case #83-00718). Rashell Ward was abducted, bound with duct tape, transported to a rural area, where she was raped. She was then transported to another rural location, where she was shot one time in the back of the head with a .38 or .357 caliber revolver, and left there.

Henry Lee Lucas has confessed to this homicide. We are seeking evidence to corroborate his confession.

In this endeavor to find that evidence, I am requesting your assistance in comparing any analyzing the evidence I am submitting to you.

It is requested that you attempt to:

- 1) Locate Lucas' hair within Ward's hair from the samples submitted.
- 2) Locate Ward's hair within the vacuumings taken from Lucas' vehicle.

45

DE-153

95-255509-3

7-32

11/14/84

WWD 259

INDEX ECC

WWD

b7C

[redacted] F.B.I.

November 1, 1984

Page Two

- 3) Compare dirt samples taken from both
crime scenes and Lucas' vehicle.

Whatever assistance you can render in this investigation
will be greatly appreciated.

b7C

If there are any questions I can answer, please telephone
either [redacted] or myself.

Sincerely,

RON E. KOENIG
Sheriff

[redacted]

b7C

Detective

Enclosures

AG:ke

EVIDENCE SUBMITTED

- I. Evidence taken from victim's body.
 - A. Envelope marked #8 containing pubic hair.
 - B. Envelope marked #9 containing scalp hair.
 - C. Brown envelope containing packages #1 and #2, which contain duct tape, victim's hair and possibly suspect's hair.
 - D. Vile marked #7L containing hair, button and dirt (foreign material).
 - E. Vile marked #7B containing hair and a cloth fiber.
- II. Evidence from crime scenes
 - A. Envelope marked #18 containing dirt sample from crime scene #1.
 - B. Envelope marked #15, containing dirt sample from crime scene #2.
- III. Evidence taken from suspect
 - A. Envelope marked A containing scalp and pubic hair.
 - B. Sealed box marked B containing numerous glass slides.
- IV. Evidence taken from suspect's vehicle
 - A. One (1) bag marked #Q-13 containing dirt from wheel well.
 - B. Four (4) bags marked #Q-10 containing vacuumings from interior of vehicle.

95-255509-3
ENCLOSURE

REPORT
of the

1 -

b7C

FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D. C. 20535

February 19, 1985

To Mr. Ron E. Koenig
Sheriff of Tehama County
Post Office Box 729
Red Bluff, California 96080

FBI FILE NO. 95-255509

Re Attention: [redacted]
Detective b7C

LAB NO 41106001 S WK VM

YOUR NO. 83-00718

LENNY LEE LUCAS - SUSPECT;
RASHELL WARD - VICTIM;
HOMICIDE/ABDUCTION/RAPE

DECEASED CA

Examination requested by

Addressee

Reference

Letter dated November 1, 1984

Examination requested

Microscopic Analyses - Mineralogy

Result of examination:

This report supplements and completes the FBI Laboratory report in this case dated February 1, 1985. For a listing of the submitted items, please refer to that report.

No hairs like the victim's were found in the Q2 through Q5 vacuum sweepings.

No hairs like the suspect's were found on or in the items from the victim.

Specimen Q9 consists of off-white synthetic fibers and also a yarn composed of pale green cotton fibers.

The submitted items will be returned under separate cover by registered mail.

3931

95-255509 4

This examination has been made with the understanding that the evidence is connected with an official investigation of a criminal matter and that the Laboratory report will be used for official purposes only, related to the investigation or a subsequent criminal prosecution. Authorization cannot be granted for the use of the Laboratory report in connection with a civil proceeding.

WFO:dsj**(4)

MAIL ROOM ☒

APR 22 1985

RECORDED
11/13/84
sgc

FEDERAL BUREAU OF INVESTIGATION
UNITED STATES DEPARTMENT OF JUSTICE

Laboratory Work Sheet

FEB 8 11/5/84
b7C

To Mr. Ron E. Koenig
Sheriff of Tehama County
Post Office Box 729
Red Bluff, California 96080

Attention: b7C
Detective

Re: HENRY LEE LUCAS - SUSPECT;
RASHELL WARD - VICTIM;
HOMICIDE/ABDUCTION/RAPE

FBI FILE NO. 95-255509-4
LAB NO. 41106001 S WK VM
YOUR NO. 83-00718

Examination by:

Examination requested by: Addressee
Reference: Letter dated November 1, 1984
Examination requested: Microscopic Analyses - Mineralogy

Specimens received
Specimens:

Q1, K5-K6 to VM on 12-3-84
ret'd 1/23 w dict

ITEMS FROM SUSPECT'S VEHICLE:

Q1 Dirt from wheel wells (IV, A)
Q2-Q5 Vacuum sweepings from interior (IV, B)

ITEMS FROM VICTIM:

Q6 Hair (I, D)
Q7 Dirt (I, D)
Q8 Hair (I, E)

Page 1

(over)

No pullbrows
41 slides

✓Q9 Fibers (I, E)

Q10-Q11 Duct tape (I, C)

K1 Pubic hair sample from victim (I, A)

K2 Head hair sample from victim (I, B)

K3 Twelve (12) slides containing known pubic hair from
suspect (III, B)

K4 Fourteen (14) slides containing known head hair
from suspect (III, B)

K5 Dirt sample from crime scene #1 (II, A)

K6 Dirt sample from crime scene #2 (II, B)

ALSO SUBMITTED:

Head hair sample from suspect (III, A)

Pubic hair sample from suspect (III, A)

Button (I, D)

41106001 S WK VM

FINAU.

This report supplements and completes the FBI Laboratory report in this case dated February 1, 1985. For a listing of the submitted items, please refer to that report.

No hairs like the victim's were found in the Q2 through Q5 vacuum sweepings.

No hairs like the suspect's were found on or in the items from the victim.

~~Specimen Q9 consists of a yarn composed of pale green cotton fibers. Also present in Q9 are off-white synthetic fibers.~~

Specimen Q9 consists of off-white synthetic fibers and also a yarn composed of pale green cotton fibers.

The submitted items will be returned under separate cover by registered mail.

K1- ph victim med 6 hairs cap's for removal from bucking
med - discont from 5 ft. some shoulder
Fine even figure

K2- hh victim ~~source~~ dk bear hh's - med frim. 0 paper
Cutting pair dalm. Scales not given
Pier heavy - fine even.
Set down out.
also some light bear h's

K3- ph suspect - med brown cap's - coat green, top & tips
Schly dk bear h's dk bear. - med broad cont - in open
cut - thin sides faint coat - fine even figure.

K4- hh suspect. dk bear coat - color correct dk bear coat
med abs. set - ave closely. Poor dalm. Scales
wed defined - pier set /y gain set conc. set.
Some ob's, Prom in some h's

Q2- body h's, ^{many dalm.} fringe h's - none like victim
Q3- hh's, fringe h's, body h's, - " " "
Q4- fringe fringe
Q5- fringe h's, dk animal h or fiber (wal)
Numerous hair-like syn fibers - animal h

Suspect
Vehicle

Victim

Q6- hh disim to susp.
Q8- " " " "
Q9- fibers - primarily pale green (olive) cotton
Off white round syn
(Over)

Q10- numerous lt knee cables - control to LHS spring p-plate
diss into sup

Q11- 1 Lt brk h-spring

41106001

- Items received packaged in sealed cardboard box
- Q2 1x1 sealed clear ziplock bag - vacuum sweepings from front floor board on passenger's side of suspect vehicle
- Q3 1x1 sealed clear ziplock bag - vacuum sweepings from rear floor board on passenger's side of suspect vehicle
- Q4 1x1 sealed clear ziplock bag - vacuum sweepings from floor board on driver's side of suspect vehicle
- Q5 1x1 sealed clear ziplock bag - vacuum sweepings from floor board on driver's side of suspect vehicle
- Q6 1x1 glass vial - hair from right palm and fingers of victim
- Q8 1x1 glass vial - hair from victim's back
- Q9 1x1 glass vial - fibers from victim's back - one is a green yarn comprised of 2 plies twisted in a Z fashion. Each ply is comprised of 2 strands twisted in an S fashion.
The other is a small white fiber
- Q10-Q11 notes on following page

- K1 1x1 sealed manila envelope - pubic hair sample from victim
- K2 1x1 sealed manila envelope - head hair sample from victim
- K3 1x1 sealed cardboard box individually wrapped in tissue paper - 12 slides containing known pubic hair from suspect
- K4 1x1 sealed cardboard box individually wrapped in tissue paper - 14 slides containing known head hair from suspect
(one slide was broken in Lab)
- Q10 2x2 sealed plastic covers - 7 pieces of duct tape from victim's head used as a blindfold and gag
- Q11 2x2 sealed plastic covers - 4 pieces of duct tape from victim's hand

SEARCH SLIP

Violation(s): HOM ABDUC RAPE
 Violation date: 03-03-83
 Violation location:
 Victim:
 WARD, RASHELL

Lab No: 41106001 S
 City: RED BLUFF, CA SH
 Form: LT 11-01-84
 Bufile No: 95-*215, 174*
 Contributors No: 8300718

Subject:
 LUCAS, HENRY LEE

Remarks:
 TEHAMA COUNTY; SHOOT;

PK Nov 2 PM

Status 1 Status 2 Status 3 Category: 2
 Trial Importance Doc\SP Complex Volume Await Evid Buded: 12-06-84
 Ack Type: 7-*32a* Principal Unit: *MAU* SFO-*PC* UC-----

b7C			Date	Date	Dict	Partial/Final
Examiner(s)	Symbols	Evidence	Delv	Ret	Date	Date(s)
	WK	<i>micro. Analysis</i>	-----	-----	-----	-----
	VM	<i>Mineralogical</i>	-----	-----	-----	-----
-----	---	-----	-----	-----	-----	-----
-----	---	-----	-----	-----	-----	-----
-----	---	-----	-----	-----	-----	-----

Q *1-11* K *1-6* Items ----- Evidence ret: -----
 Resub? NO Request? NO Return No: -----
 Call when ready? ----- EXT -----
 Latent? YES NO Q tabs? YES NO Print-*2* Assignment Card(s)

NO PREVIOUS SUBMISSIONS FOUND

Parcel Method and No: OT-REGULAR MAIL
 Received In ECC: 11-05-84
 01-Boxes

-----SFO, RM 3266
 -----ECC, RM 3233
 -----, RM-----
 -----ECC, RM 3233

WK 3

REPORT
of theFEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D. C. 20535

1 -

b7C

To: Mr. Ron E. Koenig
Sheriff of Tehama County
Post Office Box 729
Red Bluff, California 96080

February 1, 1985

Attention:
Detective

FBI FILE NO. 95-255509

LAB. NO. 41106001 S WK VM

Re:

YOUR NO. 83-00718

HENRY LEE LUCAS - SUSPECT;
RASHELL WARD - VICTIM;
HOMICIDE/ABDUCTION/RAPE

} CA

Examination requested by:

Addressee

Reference:

Letter dated November 1, 1984

Examination requested:

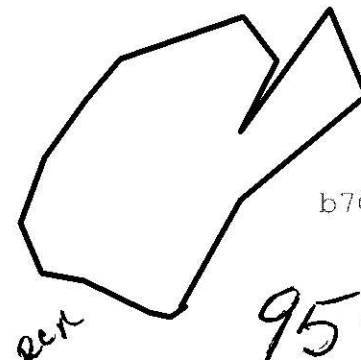
Microscopic Analyses - Mineralogy

Specimens:ITEMS FROM SUSPECT'S VEHICLE:

- Q1 Dirt from wheel wells (IV, A)
Q2-Q5 Vacuum sweepings from interior (IV, B)

ITEMS FROM VICTIM:

- Q6 Hair (I, D)
Q7 Dirt (I, D)
Q8 Hair (I, E)



b7C



Page 1

This examination has been made with the understanding that the evidence is connected with an official investigation of a criminal matter and that the Laboratory report will be used for official purposes only, related to the investigation or a subsequent criminal prosecution. Authorization cannot be granted for the use of the Laboratory report in connection with a civil proceeding.

WFO:kc#33 (4)

FEB 26 1985

MAIL ROOM ☐

APR 29 1985

FBI/DOJ

Q9 Fibers (I, E)
Q10-Q11 Duct tape (I, C)
K1 Pubic hair sample from victim (I, A)
K2 Head hair sample from victim (I, B)
K3 Twelve (12) slides containing known pubic hair from
 suspect (III, B)
K4 Fourteen (14) slides containing known head hair
 from suspect (III, B)
K5 Dirt sample from crime scene #1 (II, A)
K6 Dirt sample from crime scene #2 (II, B)

ALSO SUBMITTED:

 Head hair sample from suspect (III, A)
 Pubic hair sample from suspect (III, A)
 Button (I, D)

Result of examination:

 Due to color, texture and type differences,
soil represented by specimen Q1 could not be associated
with specimen K5 or specimen K6.

 The other requested examinations are continuing
and you will be advised of those results and the disposition
of the submitted items by a subsequent report.

41106001 S WK VM PARTIAL

b7C

[] Dict]

7:24 A.M.

The other requested examinations are continuing and you will be advised of those results and the disposition of the submitted items by a subsequent report.

b7C



Dictation

41106001
1/23/85

Due to color, texture and type differences, soil represented by specimen Q₁ could not be associated with specimen K5 or specimen K6.

RECORDED
11/13/84
sgc

FEDERAL BUREAU OF INVESTIGATION
UNITED STATES DEPARTMENT OF JUSTICE

Laboratory Work Sheet

11/5/84

b7C

To Mr. Ron E. Koenig
Sheriff of Tehama County
Post Office Box 729
Red Bluff, California 96080

b7C

Attention:

Detective

Re:

HENRY LEE LUCAS - SUSPECT;
RASHELL WARD - VICTIM;
HOMICIDE/ABDUCTION/RAPE

✓ FBI FILE NO

95-255509-5

LAB NO.

41106001 S WK VM

YOUR NO.

83-00718

Examination by:

Examination requested by.

Addressee

Reference:

Letter dated November 1, 1984

Examination requested:

Microscopic Analyses - Mineralogy

Specimens received:

Specimens:

ITEMS FROM SUSPECT'S VEHICLE:

- ✓ Q1 Dirt from wheel wells (IV, A)
Q2-Q5 Vacuum sweepings from interior (IV, B)

Q1 KSKG
rec'd 1/4/3
ptd 1/23

ITEMS FROM VICTIM:

- Q6 Hair (I, D)
Q7 Dist (I, D)
Q8 Hair (I, E)

Page 1

(over)

7-1a
1/30/85
WWO:ke

✓ Q9 Fibers(I, E)

Q10-Q11 Duct tape (I, C)

K1 Pubic hair sample from victim (I, A)

K2 Head hair sample from victim (I, B)

K3 Twelve (12) slides containing known pubic hair from
suspect (III, B)

K4 Fourteen (14) slides containing known head hair
from suspect (III, B)

✓ K5 ~~Dirt sample from crime scene #1 (III, A)~~

✓ K6 Dirt sample from crime scene #2 (II, B)

ALSO SUBMITTED:

Head hair sample from suspect (III, A)

Pubic hair sample from suspect (III, A)

Button (I, D)

Red Bluff, Cal.

41106001
12/11 OJL

Q1 - dirt from wheel well's suspect's vehicle - (rec'd in clear plastic bag) DRPbx.
Soil dried for exam.

Dark brown silty soil
Not same color as K's - $\therefore$ NPE

K5 Dirt from crime scene (#1) (rec'd in black film vial inside tan envelope) DRPbx.
Soil dried for exam

Loose gravel; silt/clay -
grayish/Tan in color w/ gravel -
Not same color or texture as Q.

K6 Dirt from crime scene (#2) (rec'd in black film vial inside tan envelope) DRPbx.
Soil dried for exam

Light brown/silt & gravel
Not same texture or color as Q,
NPE

(Rev 5-31-83)
FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D C 20535

DATE **February 14, 1985**

Re **HENRY LEE LUCAS - SUSPECT;
RASHELL WARD - VICTIM;
HOMICIDE/ABDUCTION/RAPE**

TO **Mr. Ron E. Koenig
Sheriff of Tehama County
Post Office Box 729
Red Bluff, California 96080**

Attention: b7C
Detective

FEB 22 1985

Invoice of Contents	
Description of Contents	FBI File # <u>95-255509</u>
Q1-Q11	Case # <u>41106001 S WK VM</u>
K1-K6	
ALSO SUBMITTED items	Your # <u>83-00708</u>
	☐ Return to b7C
	Room <u>3A31</u> TL <u>241</u>
	Ext b7C
	☐ Mail Room 1B327, TL 152
	(registered mail)
	☐ PSM - Supply Unit, 1B353
	(not registered)
Shipping # _____	
Shipping Method _____	
Hazardous Materials Only	
Weight of Hazardous Materials _____	
Packaged By _____	Signature _____
Date _____	

R233664153

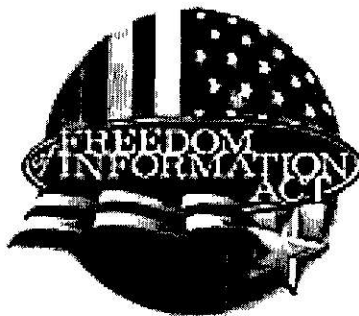
2/19/85

WWD:dsj (4)



FREEDOM OF INFORMATION
AND
PRIVACY ACTS

SUBJECT HENREY LEE LUCAS



FEDERAL BUREAU OF INVESTIGATION

FBI

TRANSMIT VIA.

☐ Teletype
☐ Facsimile
☐ AIRTEL

PRECEDENCE.

☐ Immediate
☐ Priority
☐ Routine

CLASSIFICATION:

☐ TOP SECRET
☐ SECRET
☐ CONFIDENTIAL
☐ UNCLAS E F T O
☐ UNCLAS

Date 2/27/85

TO: DIRECTOR, FBI
 (ATTN: [REDACTED] PERSONEL CRIMES UNIT)

FROM: SAC, SAN ANTONIO (7-1215) (P)

HENRY LEE LUCAS

[REDACTED]
 KIDNAPING MATTERS
 OO. SAN ANTONIO

Re San Antonio airtel to the Bureau, 2/15/85.

Enclosed for the Bureau and Baltimore is one copy of a confession dated 6/23/83, handwritten by subject HENRY LEE LUCAS regarding the kidnaping/murder of an eight year old girl at Perryville, Maryland in approximately October, 1977.

This confession was provided to San Antonio Division by Sheriff JIM BOUTWELL, Williamson County Sheriff's Office, Georgetown, Texas on 2/25/85 in view of the similarities in this handwritten confession given in June, 1983 and LUCAS' account of a kidnaping of a nine year old white female at Perryville, Maryland in approximately November, 1978. Sheriff BOUTWELL expressed the opinion that it is possible that the victims may be one and the same and that only recently LUCAS may have related the incident as a kidnaping followed by the sale of the child in Mexico rather than as a kidnaping/murder as originally given in view of LUCAS's recent interest in child kidnapings.

Sheriff BOUTWELL advised that the handwritten confession was provided to law enforcement authorities in Maryland in 1983.

3 - Bureau (Encs. 1)
 2 - Baltimore (Encs. 1)
 2 - San Antonio
 GRR/dg
 (7) ENCLOSURE ATTACHED

Approved: [Signature]

Transmitted

(Number)

(Time)

1 - 5042
 3/6/85
 53 JUN 27 1985

SA 7-1215

LEADS

BALTIMORE

AT PERRYVILLE, MARYLAND: Will attempt to determine whether or not the handwritten confession was ever verified by Perryville authorities as well as any additional details which might link this handwritten confession to the incident described by LUCAS in his February, 1985 FD-302 forwarded by referenced airtel.

F236

7-19658-1

ENCLOSURE

ENCLOSURES TO DIRECTOR, FBI

(ATTN: [REDACTED] b7C

Airtel dated 2/27/85

HENRY LEE LUCAS

[REDACTED]

b7C

KIDNAPING MATTERS

OO: SA

(Enc. 1)

Oct - 1977

13/87
6/23/87
This Girl Came from

TWIN OAKS at Perryville Md,
she was a bout 8 years old and
had Dark brown hair and Brown eyes

she was wearing
a choker neckles with an
emerald on it
the Road way
I got to



I took this girl from
and kept her until

Batton Rouge Lousian
her in a swampy
she would have been
to death and raped
she had a Ruffel neck

where I left
wooded area
strangled
several times

blouse on and a Ruffel around the front and
Ruffel came with small flower design front
she had med complexion and maby 85 pound
she was wearing blue corded pants and had brown
shoes with tie ups she had white socks and pink
panties she would chase been on a dirt
Road and in a turn off into the woods
where some trees had been cut this would
have been in 1977 the way I have draw
ed this picture is what my mind sees I
can not say if she was ever seen since

And this is a Twin Oaks in Maryland
it is at Rt 40 and at Perryville Maryland
if you cannot believe this then Call them
I can only give what my mind tells me
I cant make up there and I will get
the rest
incase you forget that's on Rt 10

I took Rt 40 to 95 south and picked up 10
at Jacksonville Fla and come on to Baton Rouge
on 10 W.

FBI

TRANSMIT VIA

☐ Teletype
☐ Facsimile
☐ AIRTEL _____

PRECEDENCE

☐ Immediate
☐ Priority
☐ Routine

CLASSIFICATION

☐ TOP SECRET
☐ SECRET
☐ CONFIDENTIAL
☐ UNCLAS E F T O
☐ UNCLAS

Date 3/27/85

TO: DIRECTOR, FBI
 (ATTN: SUPV. [REDACTED] PERSONAL CRIMES UNIT)

FROM: SAC, SAN ANTONIO (7-1215) (P)

HENRY LEE LUCAS: P-2

b7C

KIDNAPPING MATTERS
 OO: SAN ANTONIO

Re Bureau teletype to San Antonio, 3/15/85.

Enclosed for Tampa is one copy of a photograph of a white female, furnished by Texas Department of Public Safety.

On 3/25/85, HENRY LEE LUCAS advised that when he crossed into Mexico from the United States with kidnapped children, he was normally only asked to show his driver's license, birth certificate and car registration. Occasionally, he would also be asked for birth certificates for the other occupants of the vehicle but he would usually hand the Mexican official his (LUCAS) birth certificate along with birth certificates he had obtained which bore the identity of deceased infants. LUCAS stated that the Mexican officials would usually look at his birth certificate and not check the others very carefully. LUCAS added that he was also asked for the purpose and length of his visit as well as the destination to which he would reply that he was just entering the country for a brief visit and his destination was Mexico City. LUCAS stated that at the 26 kilometer checkpoint, consisting of a booth and several officials, he would pull in and the officials

4 - Bureau / Room 5042 4/3/85 PR
 (2 - Legat, Mexico City)
 2 - El Paso
 1 - Jacksonville (7-1144) (INFO.)
 3 - Tampa (Enc. 1)
 2 - San Antonio
 GRR/dg
 (12)

DE-130

7-19658-2

16 APR 3 1985

Approved: JWB/JEV

Transmitted

(Number)

(Time)

Per AB

2 Legat Mexico City 4/5/85
 1-5042
 4/14/85
 RFM/got

DE-130

SA 7-1215

would just look in the car and ask if he was an American. LUCAS stated that once he told them he was an American, they would wave him through and conduct no further identity checks. LUCAS stated that he never had to pay any bribes at the 26 kilometer checkpoint and the only bribe he can recall to a Customs official at the border was a \$500 bribe paid when the official discovered seventy (70) pounds of marijuana LUCAS was carrying into Mexico; however, he had no kidnapped children with him at this time.

LUCAS stated that he obtained the deceased infants' birth certificates by going to graveyards and identifying deceased infants and then applying for a copy of the birth certificate from the local county courthouse. He recalled that he did this in several counties in Virginia and possibly other locations as well.

LUCAS advised that during a recent interview by a Special Agent of the FBI from the El Paso Division, he related details of a child kidnapping involving a young white female. LUCAS advised that a photograph of this victim was recovered in LUCAS' 1974 Ford LTD bearing 1982 Florida tag UDV 196 which he abandoned on 1/21/82 on Interstate 10 in Kendall County, Texas. [redacted] Assistant Chief of the Criminal Division, Texas Department of Public Safety, furnished a blown up copy of this photograph. b7C

[redacted] stated that the above vehicle was previously registered to [redacted] DOB [redacted] Lakeland, Florida. LUCAS states that he purchased the vehicle in Jacksonville, Florida in approximately November, 1981 from Spencer's Car Lot and abandoned it two months later in Texas.

LEADS

EL PASO

AT EL PASO, TEXAS: Will furnish San Antonio and Jacksonville with full details provided by LUCAS regarding the child kidnapping and any verification made to date.

TAMPA

AT LAKE LAND, FLORIDA: Will attempt to locate [redacted] [redacted] DOB [redacted] through her 1982 Florida license registration and display photograph of white female to determine if she is acquainted with the girl and may have left her photograph in the vehicle. b7C

VZCZCMEX0197 0741646

R 051610Z MAR 85

FM MEXICO CITY (7-141) (P)
TO DIRECTOR FBI ROUTINE
BT

10 MAR 1985
FEDERAL BUREAU
OF INVESTIGATION

APR 1

504 UNCLAS

ATTENTION: [REDACTED] PERSONAL CRIMES UNIT b7C
HENRY LEE LUCAS; [REDACTED]; KIDNAPING
MATTERS. OO: SAN ANTONIO.

RE SAN ANTONIO AIRTEL TO BUREAU DATED 2/15/85.

FROM REVIEW OF INFORMATION ENCLOSED WITH RE SAN ANTONIO
AIRTEL, LEGAT MEXICO CITY REQUESTS THAT SAN ANTONIO, IF POSSIBLE,
DETERMINE THE FOLLOWING FROM LUCAS:

1) HOW DID LUCAS GET KIDNAPPED CHILDREN PAST THE 26 KILOMETER
CHECKPOINT IN MEXICO, PAST WHICH A MEXICAN TOURIST CARD IS
REQUIRED.

2) WHAT POSITIVE IDENTIFICATION WAS USED FOR KIDNAPPED
VICTIMS AND HOW WAS PARENTAL PERMISSION COVERED. WAS BRIBERY OF
MEXICAN OFFICIALS INVOLVED? IF SO, DETAILS.

OFFICES CONDUCTING INVESTIGATION TO VERIFY THE KIDNAPINGS
SET FORTH IN REFERENCED SAN ANTONIO AIRTEL ARE REQUESTED TO
PROMPTLY FORWARD COMPLETE DESCRIPTIVE DATA AND PHOTOGRAPHS OF
KIDNAPPED VICTIMS IDENTIFIED, TO LEGAT, MEXICO CITY, TO ASSIST
IN ANY ATTEMPTS TO LOCATE VICTIMS.

073 to FBI, AT, CG, BA, CV, DL, DE, IP,
JK, LA, MM, NK, OC, PH, RH,
TP, SA,

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 11-19-2001 BY sp 2 ALM/EHL

JPT :ceg 3/15/85

11 11 11

PAGE TWO MEX 7-141 UNCLAS

LEGAT, MEXICO CITY, HAS SENT CONFIDENTIAL SOURCES ABROAD TO ATTEMPT TO LOCATE RANCHES DESCRIBED IN REFERENCED AIRTEL. IF LOCATED, RANCHES WILL BE DISCREETLY PHOTOGRAPHED AND PHOTOGRAPHS SENT TO SAN ANTONIO FOR VERIFICATION WITH LUCAS.

ADMINISTRATIVE:

BUREAU IS REQUESTED TO RELAY THE ABOVE INFORMATION VIA TELETYPE TO THE FOLLOWING OFFICES: ATLANTA, BALTIMORE, CHICAGO, CLEVELAND, DALLAS, DETROIT, INDIANAPOLIS, JACKSONVILLE, LOS ANGELES, MIAMI, NEWARK, OKLAHOMA CITY, PHILADELPHIA, PITTSBURGH, RICHMOND, SAVANNAH, TAMPA, AND SAN ANTONIO.

BT

315

O
A
EMESSAGE RELAY VIA TELETYPE
(RESTRICTED USE)Date 3/15/85 PRECEDENCE ☐ IMMEDIATE ☐ PRIORITY ☒ ROUTINE

FM DIRECTOR, FBI

TO FBI, AT, BA, CG, CV, DL, DE, IP, JK, LA, MM, NK, OC, PH, PG, RH, SV,
TP, SA

- ☐ White House/WH/
- ☐ Bureau of Alcohol Tobacco Firearms/BATF/
- ☐ Central Intelligence Agency/CIA/
- ☐ CIA DCD/DCD/
- ☐ Dept of Energy HQS/DOEHQ/
- ☐ Dept of Energy Germantown DIV/DOE/
- ☐ Dept of Justice/DOJ/
- ☐ Dept of State/DOS/
- ☐ Dept. of the Army/DA/
- ☐ Dept of Treasury/DOT/
- ☐ Defense Intelligence Agency/DIA/
- ☐ Director National Security Agency/NSA/
- ☐ Director Naval Investigative Service/DIRNAVINSERV/
- ☐ Drug Enforcement Admin /DEA/
- ☐ FAA Washington HQ/FAA/
- ☐ HQ AFOSI Bolling AFBDC/AFOSI/
- ☐ INSCOM Ft Meade/INSCOM/
- ☐ Nuclear Regulatory Commission/NRC/
- ☐ U S Customs Service/UCS/
- ☐ U S. Immigration & Naturalization Service/INS/
- ☐ U S. Secret Service/USSS/
- ☐ Other _____

BT

Classification UNCLAS

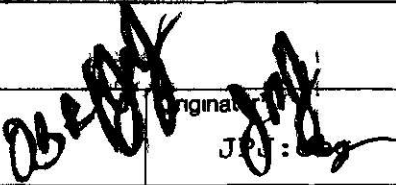
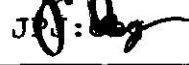
Addressee Internal Distribution

For _____

Subject HENRY LEE LUCAS; [REDACTED] KIDNAPING MATTERS.

OO: SAN ANTONIO

☐ See Attached

Approved By 	Original JPL: 	Tele Ext  b7C	Room/Div 5046/6
--	--	---	--------------------

FEDERAL BUREAU OF INVESTIGATION
COMMUNICATIONS CENTER

MAR 17 1985

DO NOT FILE WITHOUT COMMUNICATIONS STAMP

USE AND PREPARATION OF FORM 0-73

Restrictions on Use

- 1 Only incoming teletype messages within the categories listed in MIOG Section 16-1 7 pages 1251 & 1252 may be prepared using form 0-73
- 2 Use of Form 0-73 is restricted to incoming teletype messages received at FBIHQ Communications Center within the last 72 hours
- 3 Addressees must be Bureau Offices (LEGAT/Field) or other Government Agencies **Geographical location must be indicated if other Government Agency is located outside the Washington, D.C. area**
- 4 Editing of message text is restricted to typed or printed changes of a word or two Changes to the existing text involving more than a word or two will require the originator to initiate a new message using Form 0-93 Administrative data may be added immediately following the text and must be identical for all addressees
- 5 Teletype messages received by the Communications Center that do not meet the above criteria shall be returned to the originator for preparation using Form 0-93

Preparation of 0-73 Form (Yellow)

- 1 **Date & Precedence** - Type or print date and indicate precedence by checking the appropriate box
- 2 **Addressee(s)** - Type or print addressee(s) immediately following the "TO " or place a check mark in the appropriate box Note When using block "Other," indicate geographical location if addressee(s) is located outside Washington, D C If addressee(s) is a military installation, the name of the base, fort, or station must be listed to ensure delivery
- 3 **Classification** - Type or print the classification and if appropriate the caveat and warning notices
- 4 **Addressee Internal Distribution** - Complete when the originator wishes the message to be distributed to a known entity within a Headquarters Agency (i.e. Division, Section, Unit, etc) List the addressee(s) abbreviation and the internal distribution, i.e. a message to Dept of State, Dept of Justice, and Defense Intelligence Agency, list on the "For" line(s) as follows
Example: For DOS For SY/TAG, DOJ For Asst AG Criminal Div , DIA For DSOP
Messages which do not list internal distribution shall be delivered to the agency headquarters where their analyst will effect in-house distribution
- 5 **Subject** - Type or print the subject in the space provided or check "see attached" if subject is identical to attached message
- 6 **Originator's Boxes** - Type or print the originator's name, telephone extension, room number, and division
- 7 **Approved By Box** - Indicate approval for transmission by initialing the approved by box Note The person approving the message is solely responsible for assuring all necessary editing changes are accurate and are legible

Preparation of Message To Be Transmitted

- 1 **Duplicate Copy & Notations** - Xerox 1 copy of the incoming teletype message A notation shall be made on the original incoming teletype indicating one copy made for relay to SACS _____, (or LEGATS) _____, (or Government Agencies) _____
- 2 **Editing of Duplicate Copy (Heading)** - Using a lead pencil ONLY draw single lines through the first and last lines of the message heading, connect these lines from top right to bottom left forming a "Z" figure (Do Not Obliterate the Heading)
- 3 **Editing Changes to the Text** - (See Restrictions on Use, item 4)
- 4 **Administrative Data** - Type or print administrative data immediately following the text

VZCZCMEX0197 0741646

R 051610Z MAR 85

FM MEXICO CITY (7-141) (P)

TO DIRECTOR FBI ROUTINE

BT

UNCLAS

ATTENTION: [REDACTED] PERSONAL CRIMES UNIT b7C

HENRY LEE LUCAS; [REDACTED] KIDNAPING

MATTERS. OO: SAN ANTONIO.

BY TELETYPE DATED MARCH 15, 1985. LEGAT, MEXICO CITY FURNISHED THE FOLLOWING:
RE SAN ANTONIO AIRTEL TO BUREAU DATED 2/15/85.

FROM REVIEW OF INFORMATION ENCLOSED WITH RE SAN ANTONIO
AIRTEL, LEGAT MEXICO CITY REQUESTS THAT SAN ANTONIO, IF POSSIBLE,
DETERMINE THE FOLLOWING FROM LUCAS:

1) HOW DID LUCAS GET KIDNAPPED CHILDREN PAST THE 26 KILOMETER
CHECKPOINT IN MEXICO, PAST WHICH A MEXICAN TOURIST CARD IS
REQUIRED.

2) WHAT POSITIVE IDENTIFICATION WAS USED FOR KIDNAPPED
VICTIMS AND HOW WAS PARENTAL PERMISSION COVERED. WAS BRIBERY OF
MEXICAN OFFICIALS INVOLVED? IF SO, DETAILS.

OFFICES CONDUCTING INVESTIGATION TO VERIFY THE KIDNAPINGS
SET FORTH IN REFERENCED SAN ANTONIO AIRTEL ARE REQUESTED TO
PROMPTLY FORWARD COMPLETE DESCRIPTIVE DATA AND PHOTOGRAPHS OF
KIDNAPPED VICTIMS IDENTIFIED, TO LEGAT, MEXICO CITY, TO ASSIST
IN ANY ATTEMPTS TO LOCATE VICTIMS.

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED
DATE 11-19-2001 BY SP 2 ALM/EHL

CWO001 0741501Z

RR HQ

DE CV

R 15 1445Z MAR 85

10 MAR 85 15 45

1 MAR 85 15 45
1 MAR 85 15 45
1 MAR 85 15 45

FM CLEVELAND (7-1618) TRA (RUC)

TO DIRECTOR ROUTINE

SAN ANTONIO (7-1215) ROUTINE

BT

UNCLAS

HENRY LEE LUCAS; [REDACTED] KIDNAPPING MATTER,

OO: SAN ANTONIO

RE SAN ANTONIO AIRTEL TO THE DIRECTOR, DATED FEBRUARY 15, 1985.

ON MARCH 13, 1985, [REDACTED] JUVENILE UNIT, TOLEDO POLICE DEPARTMENT, ADVISED THAT HIS DEPARTMENT HAS NO MISSING ABDUCTED WHITE CHILDREN AS DESCRIBED BY SUBJECT LUCAS RELATIVE TO LUCAS' ALLEGED VISIT TO TOLEDO, OHIO IN SEPTEMBER OR OCTOBER, 1980.

ON MARCH 14, 1985, A MESSAGE TO ALL POLICE AGENCIES IN THE TOLEDO RESIDENT AGENCY TERRITORY WAS SENT VIA THE OHIO LAW ENFORCEMENT AUTOMATED DATA SYSTEM (LEADS) RE AN ABDUCTED WHITE CHILD; HOWEVER, THIS EFFORT ALSO MET WITH NEGATIVE RESULTS.

SAN ANTONIO IS ADVISED THAT THE DESCRIPTION OF THE AREA WHICH

13 MAY 1985

CC-Behavioral
Science Unit,
Tndy Div

CC-RMS042

Exec. AD Adm.	
Exec. AD Inv.	
Exec. AD-ITS	
Asst. Dir.:	
Adm. Serv.	
Crim. Inv.	
Ident.	
Inspection	
Intell.	
Laboratory	
Legal Coun.	
Off. Cong. & Public Affs.	
Rec. Mgmt.	
Tech. Serv.	
Training	
Off. of the Dir.	
Off. of the Sec'y	

PAGE TWO CV 7-1618 UNCLAS

LUCAS STATED WAS THE ABDUCTION SITE IS INCONSISTENT WITH THE
LOCATION OF THE TOLEDO MUSEUM OF ART AND INTERSTATE 475.

CLEVELAND AT TOLEDO IS CONSIDERING THIS MATTER RUC'D.

BT

FBI

TRANSMIT VIA:

☐ Teletype
☐ Facsimile
☒ Airtel

PRECEDENCE:

☐ Immediate
☐ Priority
☐ Routine

CLASSIFICATION:

☐ TOP SECRET
☐ SECRET
☐ CONFIDENTIAL
☐ UNCLAS E F T O
☐ UNCLAS

Date 3/13/85

TO: DIRECTOR, FBI
 b7C ATTN: [REDACTED] PERSONAL CRIMES UNIT

FROM: SAC, LOS ANGELES (7-2500) (C-1) (WCRA) (P)

RE: HENRY LEE LUCAS;

b7C

[REDACTED]
 KIDNAPPING MATTERS
 OO: San Antonio

Re San Antonio airtel to Bureau dated 2/15/85.

SA [REDACTED] contacted Homicide Detective [REDACTED] West Covina, California, Police Department on 2/28/85. He advised that there were no unsolved murders of a juvenile or female in West Covina in 1982. [REDACTED] related that he had recently attended a police conference in Las Vegas, Nevada, concerning HENRY LEE LUCAS and [REDACTED]. He has also talked personally with a Texas Ranger familiar with this matter (name believed to be [REDACTED]). As a result he and other officers in the area are well acquainted with the exploits of LUCAS and [REDACTED].

b7C

LEADLOS ANGELES

AT SAN BERNARDINO, CALIFORNIA: Contact San Bernardino Sheriff's Office and San Bernardino Police Department concerning any unsolved abductions of 4-5 year old females from a trailer park in the summer of 1982. (See page 21 of 2/11/85 interview of LUCAS).

② - Bureau / Room 5012 3/18/85 R 7<19658 b
 2 - San Antonio
 2 - Los Angeles
 JET/ksm
 (6)

4 MAR 18 1985

Approved

RTB/let

Transmitted

(Number)

(Time)

Per

[Signature]

2 MAY 30 1985

[Signature]

JKO 085 1140Z

RR HQ SA

DE JK

R 252200Z MAR 85

26 MAR 85 12 30

b7C

FM JACKSONVILLE (7-LL44) (P)

TO DIRECTOR, FBI ROUTINE

SAN ANTONIO (2-15) ROUTINE

BT

UNCLAS

ATTENTION: [REDACTED] PERSONAL CRIMES UNIT.

HENRY LEE LUCAS; [REDACTED] KIDNAPPING

MATTERS; OO: SAN ANTONIO.

b7C

b7C

RE SAN ANTONIO TELETYPE TO DIRECTOR, FEBRUARY 15, 1985;

JACKSONVILLE TELETYPE TO DIRECTOR, MARCH 5, 1985; AND SAN

ANTONIO TELETYPE TO DIRECTOR, MARCH 13, 1985.

CONTACT WITH FLORIDA DEPARTMENT OF LAW ENFORCEMENT SPECIAL

AGENT [REDACTED] REVEALED THAT [REDACTED] HAS BEEN

RETURNED TO LEON COUNTY, FLORIDA, FROM DEATH ROW, FLORIDA STATE

PRISON, STARKE, FLORIDA, AT THE REQUEST OF FDLE TO ASSIST IN

Exec. AD Adm.	
Exec. AD Inv.	
Exec. AD LES	
Asst. Dir.:	
Adm. Servs.	
Crim. Inv.	
Ident.	
Inspection	
Intell.	
Laboratory	
Legal Coun.	
Off. of Cong. & Public Affs.	
Rec. Mgmt.	
Tech. Servs.	
Training	
Telephone Rm.	
Director's Sec'y	

APR 2 1985

53 MAY 14 1985

PAGE 2 7-LL44 UNCLAS

THEIR ONGOING MURDER INVESTIGATION. ARRANGEMENTS WERE MADE THROUGH FDLE TO INTERVIEW [] ON APRIL 1, 1985, PER THE REFERENCED TELETYPE.

INVESTIGATION AT TALLAHASSEE REVEALED THAT THE ATTORNEY AD LITEM FOR [] WAS [] [] BARTOW, FLORIDA, [] TELEPHONE NUMBER [] CONTACT WITH [] REVEALED THAT SHE WAS APPOINTED TO REPRESENT [] ON A CERTAIN MATTER, AT THE TERMINATION OF WHICH, HER REPRESENTATION OF [] ALSO TERMINATED. [] LATEST REPRESENTATION WAS A GENERAL PARTNER IN HER FIRM WHO REPRESENTED [] INTEREST IN AN APPLICATION FOR A SEARCH WARRANT FOR THE PERSON OF [] ADVISED THAT CIRCUIT JUDGE J. TIM STRICKLAND, 10TH JUDICIAL CIRCUIT, BARTOW, FLORIDA, DENIED THAT APPLICATION BY WRITTEN ORDER ON MARCH 15, 1985. ACCORDING TO [] THAT REPRESENTATION OF [] HAS ALSO TERMINATED.

b7C

SHORTLY AFTER THE TELEPHONE CONVERSATION WITH [] JACKSONVILLE RECEIVED A CALL FROM [] CHIEF LEGAL ASSISTANT, JUVENILE DIVISION, 10TH JUDICIAL CIRCUIT, BARTOW, FLORIDA, TELEPHONE NUMBER 813/533-0411 EXT [] WHO

PAGE 3 7-LL 44 UNCLAS

HAD BEEN CONTACTED BY [REDACTED] SUGGESTED THAT JACKSONVILLE
CONTACT [REDACTED] THE LEGAL COUNSEL FOR THE
DEPARTMENT OF HEALTH AND REHABILITATIVE SERVICES, DISTRICT 6,
TAMPA, FLORIDA, TELEPHONE NUMBER 813/272-2540, IN ORDER TO
PURSUE THE INTERVIEW OF [REDACTED] WHO WORKS FOR JUDGE
STRICKLAND WAS ASKED ABOUT THE "GAG ORDER" PROHIBITING
LAW ENFORCEMENT FROM QUESTIONING [REDACTED] INDICATED
THAT THE ORDER WAS STILL IN EFFECT AND THAT THE ORDER SPECIFIES
THAT LAW ENFORCEMENT WISHING TO QUESTION [REDACTED] MUST PETITION
THE COURT FOR AN ORDER PERTAINING TO QUESTIONING. THIS ORDER
SHOULD SET FORTH FACTS REGARDING THE INFORMATION SOUGHT,
PROBABLE CAUSE THAT [REDACTED] HAS THE INFORMATION AND THE NATURE
AND REASONS FOR THE REQUEST THAT WOULD OFFSET ANYTHING THAT
WOULD NOT BE IN THE BEST INTEREST OF THE CHILD. COPIES ARE TO
BE PROVIDED TO THE DEPARTMENT OF HEALTH AND REHABILITATIVE
SERVICES, TAMPA, AND THE GUARDIAN AD LITEM FOR [REDACTED] AN
APPROPRIATE HEARING WOULD THEN BE SCHEDULED CONCERNING THE
PETITION.

b7C

[REDACTED] WAS ALSO ASKED ABOUT THE APPLICATION FOR A SEARCH

PAGE 4 7-LL44 UNCLAS

WARRANT FOR THE PERSON OF [REDACTED] CONFIRMED THAT JUDGE STRICKLAND HAD DENIED THE APPLICATION. IN HIS WRITTEN ORDER JUDGE STRICKLAND CITED IN PART THAT ALLEGATIONS WERE VAGUE, THE PROBABLE CAUSE WAS WEAK AND THE PROBABLE CAUSE THAT EXISTED WAS BASED ON INFORMATION FROM CONVICTED MURDERERS (LUCAS AND [REDACTED]) CONTACT WITH [REDACTED] REVEALED THAT THE REASON FOR THE "GAG ORDER" WAS THAT INITIALLY LAW ENFORCEMENT WAS ALLOWED TO INTERVIEW [REDACTED] BUT, AS A DIRECT RESULT OF THESE INTERVIEWS, [REDACTED] BEHAVIOR REGRESSED TO A POINT WHERE HRS FELT IT NECESSARY TO DISCONTINUE ALL INTERVIEWS. [REDACTED] READ THE PROVISIONS OF JUDGE STRICKLAND'S ORDER AND PROMISED TO SEND A COPY TO JACKSONVILLE. UPON ITS RECEIPT, JACKSONVILLE WILL FORWARD A COPY TO SAN ANTONIO.

b7C

BT

F MM WITH 1

MM001 079 1345Z

RR HQ SA JK

DE MM

R 20 1345Z MAR 85,

FM MIAMI (7-1734) (C-1) (RUC)

TO DIRECTOR ROUTINE

(ATTENTION: SUPERVISORY SPECIAL AGENT PERSONAL CRIMES

UNIT, CRIMINAL INVESTIGATIVE DIVISION)

SAN ANTONIO (7-1215) ROUTINE

JACKSONVILLE ROUTINE

BT

UNCLAS

HENRY LEE LUCAS; ET AL KIDNAPPING MATTERS OO: SAN ANTONIO

RE SAN ANTONIO AIRTEL TO BUREAU DATED FEBRUARY 15, 1985,
ENCLOSING COPY OF FEBRUARY 1, 1985, FEBRUARY 8, 1985 AND FEBRUARY 11,
1985, INTERVIEW OF HENRY LEE LUCAS AT GEORGETOWN, TEXAS. COUPLE
WITH REQUEST THAT DETAILS BE PROVIDED LOCAL AUTHORITIES IN EFFORT
TO CONFIRM INFORMATION PROVIDED RE REPORTED KIDNAPPINGS.

INFORMATION AS PROVIDED IN RE AIRTEL PROVIDED DADE COUNTY
AUTHORITIES INCLUDING METRO POLICE DEPARTMENT, MIAMI POLICE DEPARTMENT,
NORTH MIAMI BEACH AND NORTH MIAMI POLICE DEPARTMENTS AS WELL AS

JUN 7 1985

7-19658-8

17 MAR 21 1985

PAGE TWO MM 7-1734 UNCLAS

BISCAYNE PARK. INFORMATION ALSO PROVIDED KEY WEST POLICE DEPARTMENT AND MONROE COUNTY AUTHORITIES. ALL CONTACTS NEGATIVE RE INFORMATION AS PROVIDED BY LUCAS.

MATTER BEING PLACED IN RUC STATUS IN MIAMI.

BT

FBI

TRANSMIT VIA:

☐ Teletype
☐ Facsimile
☒ AIRTEL

PRECEDENCE:

☐ Immediate
☐ Priority
☐ Routine

CLASSIFICATION:

☐ TOP SECRET
☐ SECRET
☐ CONFIDENTIAL
☐ UNCLAS E F T O
☐ UNCLAS

Date 3/28/85

TO: DIRECTOR, FBI

FROM: SAC, NEWARK (7-1678) (P) (C-1)

HENRY AEE LUCAS:

[REDACTED] b7C
KIDNAPPING MATTERS

Re: Newark airtel to San Antonio, dated 3/19/85.

For information of San Antonio and Jacksonville, on 6/2/79, the body of a white male, age 16 to 18 years old, was discovered in a shallow grave off Jerico Road, Quinton Township, Salem County, NJ. Victim had been shot in left eye by a .22 caliber bullet and victim's pants were pulled down to his knees. Body was partially decomposed.

Victim was dressed in white painter pants; black Pro-Ked sneakers, size 8; plaid shirt, Cotton Poppy, made in India; heavy black and white pull-over Michaelangelo sweater; dark wool waist-length Lee jacket, size small with gold plated initial "R" on right pocket flap and small gold plated cross on left pocket flap; brown wool socks; wearing gold necklace with twist pattern and on silver necklace an Italian horn; pack of Marlboro cigarettes and pack of matches from TOLZ REALTY, Cape May County.

Description of body is as follows:

Sex	Male
Race	White
Age	16-18 years old

② - Bureau / Room 5042 4/1/85 PR
 2 - Jacksonville
 2 - San Antonio (7-1215)
 2 - Newark
 WJA/td
 (8)

MAR 29 1985

Approved: [Signature]

Transmitted _____

(Number)

(Time)

Per _____

2 MAY 30 1985

[Handwritten initials]

NK 7-1678

Height	Approximately 5'8½"
Build	Medium
Hair	Medium brown, four to six inches straight
Estimated Time of Death	Winter season of 1978-1979

Above information being furnished San Antonio and Jacksonville for inclusion in any future interviews of LUCAS, [REDACTED] or [REDACTED]

b7C

MF

CGO 042 0810550

RR HQ

DE CG

R 0810550Z MAR 85

FM CHICAGO (7-2791) (RUC) (SQUAD 13A/8)

TO DIRECTOR ROUTINE

JACKSONVILLE ROUTINE

SAN ANTONIO (7-1215) ROUTINE

BT

UNCLAS

HENRY LEE LUCAS; [REDACTED] b7C

KIDNAPPING MATTERS; OO: SAN ANTONIO.

RE SAN ANTONIO TO THE BUREAU, FEBRUARY 15, 1985,
AND SAN ANTONIO TELETYPE TO THE DIRECTOR, MARCH 13, 1985.

INVESTIGATION CONDUCTED BY THE CHICAGO DIVISION/NRA,
THROUGH CONTACTS AT THE LIBERTYVILLE, MUNDELIN, LAKE
FOREST, LAKE BLUFF, VERNON HILLS, AND WAUKEGAN, ILLINOIS,
POLICE DEPARTMENTS YIELDED THAT THESE DEPARTMENTS HAVE
NO UNACCOUNTED FOR MISSING CHILDREN OR UNSOLVED JUVENILE
HOMICIDES. CHICAGO HAS BEEN UNABLE TO VERIFY INFORMATION
RE CHILD KIDNAPPINGS PROVIDED BY SUBJECT LUCAS, LUCAS

22 MAR 85 06 11
MAR 85 06 11
MAR 85 06 11

MS

1-5842
B6

Exec. AD Adm.	
Exec. AD Inv.	
Exec. AD-LES	
Asst. Dir.:	
Adm. Servs.	
Crim. Inv.	
Ident.	
Inspection	
Intell.	
Laboratory	
Legal Coun.	
Off. of Cong. & Public Affairs	
Rec. Mgmt.	
Tech. Servs.	
Training	
Telephone Rm.	
Director's Sec'y	

b7C

[REDACTED]

Amc

7-19658-10

16 MAR 22 1985

[REDACTED]

pd MAY 2 1985

PAGE TWO

CG 7-2791

UNCLAS

302, INCIDENT K, PAGE 13.

UNIFORMLY, THROUGH CONTACT AT THE LAKE COUNTY SHERIFF'S OFFICE (LCSO), [REDACTED] HAS BEEN UNABLE TO VERIFY INFORMATION RE CHILD KIDNAPPINGS PROVIDED BY SUBJECT LUCAS, LUCAS 302, INCIDENT K, PAGE 13. HOWEVER, [REDACTED] ADVISED THAT IN JUNE OF 1984, HE TRAVELED TO THE WILLIAMSON COUNTY JAIL, GEORGETOWN, TEXAS, AND VIDEOTAPED AN INTERVIEW OF SUBJECT REGARDING AN UNSOLVED HOMICIDE DATING TO AUGUST OF 1977.

b7C

THE VICTIM, LISA SCHLESSER, A TWELVE AND ONE HALF YEAR OLD, WHITE FEMALE, BROWN SHORT HAIR, NINETY TO NINETY-FIVE POUNDS, OVER FOUR FEET TALL, WAS PICKED UP WHILE RIDING HER BICYCLE A SHORT DISTANCE FROM HER HOME ON SHERIDAN ROAD BETWEEN WAUKEGAN, AND ZION, ILLINOIS. SHE WAS FOUND APPROXIMATELY SEVEN MILES AWAY NEAR RUSSELL, ILLINOIS. SHE HAD BEEN STABBED REPEATEDLY, AND TWO TYPES OF PUNCTURE WOUNDS WERE VISIBLE.

ALLEGEDLY, DURING THE INTERVIEW, LUCAS MADE CERTAIN ADMISSIONS OF GUILT, HOWEVER, THE TRUTHFULNESS OF THE

PAGE THREE

CG 7-2791

UNCLAS

ADMISSIONS HAVE NOT YET BEEN DETERMINED BY THE LAKE COUNTY SHERIFF'S OFFICE.

UNIFORMLY, A REPRESENTATIVE OF THE COOK COUNTY SHERIFF'S OFFICE (CCSO) INTERVIEWED LUCAS, AND ALLEGEDLY LUCAS MADE CERTAIN ADMISSIONS OF GUILT TO CCSO BY IDENTIFYING A PHOTOGRAPH OF SCHLESSER FROM A PHOTO SPREAD AS AN INDIVIDUAL HE HAD MURDERED IN THE WAUKEGAN, ILLINOIS AREA. THE TRUTHFULNESS OF THIS ADMISSION HAS NOT YET BEEN ASCERTAINED.

b7C BOTH VISITS WERE ALLEGEDLY ORCHESTRATED THROUGH [REDACTED] OF THE TEXAS RANGERS.

THE LAKE COUNTY SHERIFF'S OFFICE IS PROCEEDING FORWARD WITH THEIR INVESTIGATION, AND HOPED TO REINTERVIEW LUCAS AT ANOTHER TIME.

AS CHICAGO HAS BEEN UNABLE TO VERIFY A KIDNAPPING, OR VERIFY INFORMATION PROVIDED BY LUCAS IN LUCAS 302, INDICENT K, PAGE 13, THIS CASE IS REFERRED UPON COMPLETION.

BT

MF

SA0075 072014Z

RR HQ AT BA CG CV DL DE EP IN MA MB RS 02 09

DESA

R 13014Z MAR 85

FM SAN ANTONIO (7-1215) (P)

TO DIRECTOR ROUTINE

ATLANTA ROUTINE

BALTIMORE ROUTINE

CHICAGO ROUTINE

CLEVELAND ROUTINE

DALLAS ROUTINE

DETROIT ROUTINE

EL PASO ROUTINE

INDIANAPOLIS ROUTINE

JACKSONVILLE ROUTINE

LOS ANGELES ROUTINE

MIAMI ROUTINE

NEWARK ROUTINE

OKLAHOMA CITY ROUTINE

PHILADELPHIA ROUTINE

PITTSBURGH ROUTINE

RICHMOND ROUTINE

MAR 85 02 09
FEDERAL BUREAU
OF INVESTIGATION

Exec. AD-Adm.	
Exec. AD-Inv.	
Exec. AD-LES	
Asst. Dir.:	
Adm. Serv.	
Crim. Inv.	
Ident.	
Inspect.	
Intell.	
Lab.	
Legal Coun.	
Off. Cong. & Public Aff.	
Rec. Mgmt.	
Tech. Serv.	
Training	
Telephone Rm.	
Director's Sec'y	

6-2
8-2
10-2

[Redacted]

b7C

[Redacted]

2C D

3/14/85

b7C

[Redacted]

Legal Council will
have agent assigned to
the Dallas contact
for
not in PCA Tracker
7-19-58 refer to the case
Pm

7-19-58

10 APR 15 1985

[Redacted]

b7C

06

LC 40 CID
3/25/85
ICC - Loc 1 Coun Div
269
X2
4/14/85
SAC, SA,
C: the

PAGE TWO SA 7-1215 UNCLAS

SAVANNAH ROUTINE

TAMPA ROUTINE

BT

UNCLAS

md

ATTN.: [REDACTED] PERSONAL CRIMES UNIT AND LEGAL DIVISION

b7C

HENRY LEE ^②LUCAS; [REDACTED] KIDNAPPING

MATTERS. OO: SAN ANTONIO

RE SAN ANTONIO AIRTEL TO BUREAU, FEBRUARY 15, 1985; JACKSONVILLE TEL TO BUREAU, MARCH 5, 1985 AND TALLAHASSEE RA TELCALL TO AUSTIN RA, MARCH 13, 1985.

FOR INFORMATION OF THE BUREAU, DALLAS AND BALTIMORE DIVISIONS HAVE BEEN UNABLE TO VERIFY INFORMATION RE CHILD KIDNAPPINGS PROVIDED BY SUBJECT LUCAS ALTHOUGH BALTIMORE HAS FIVE OPEN MISSING CHILDREN CASES FROM 1978-1979 THAT REMAIN UNRESOLVED DUE TO DEPARTURE OF THE AREA BY THE CHILDREN'S FAMILIES. BALTIMORE WILL ATTEMPT TO RESOLVE THESE THROUGH THE BALTIMORE POLICE DEPARTMENT.

ATLANTA DIVISION REPORTS A MISSING WHITE FEMALE, 14 YEARS OLD, 5'2"-4", BLOND SHOULDER-LENGTH HAIR, WEARING BLUEJEANS

PAGE THREE SA 7-1215 UNCLAS

AND BROWN SHIRT FROM EAST POINT AREA OF ATLANTA WHO LEFT HER PARENTS AS A RESULT OF CHILD ABUSE IN JANUARY, 1978. THIS VICTIM GENERALLY FITS DESCRIPTION AND CIRCUMSTANCES OF VICTIM DESCRIBED BY LUCAS IN INCIDENT "E", PAGE 8 LUCAS 302.

SAN ANTONIO BELIEVES INTERVIEW OF [REDACTED] IS ESSENTIAL TO DETERMINING VERACITY OF LUCAS' STATEMENTS. SAN ANTONIO PROPOSES THAT (1) APPROPRIATE PERSONNEL OF THE FLORIDA DEPARTMENT OF LAW ENFORCEMENT (FDLE) BE CONTACTED TO DETERMINE IF AN INTERVIEW OF [REDACTED] REGARDING ONLY KIDNAPPING MATTERS IN WHICH HE IS ALLEGED TO BE A PARTICIPANT WOULD PREJUDICE THEIR MURDER/RAPE CASES AND (2) [REDACTED] ATTORNEY BE APPROACHED TO DETERMINE IF [REDACTED] HAS ANY KNOWLEDGE OF KIDNAPPINGS IN WHICH THE VICTIM WAS TAKEN TO MEXICO BY LUCAS AND [REDACTED] AND IF SO, UNDER WHAT CIRCUMSTANCES, WOULD PERMIT AN INTERVIEW OF [REDACTED] RE THESE KIDNAPPING MATTERS WITH A VIEW TOWARD A GRANT OF LIMITED IMMUNITY WHICH THE FBI WOULD ATTEMPT TO COORDINATE WITH THE INTERESTED FEDERAL AND LOCAL JURISDICTIONS.

b7C

LEGAL DIVISION IS REQUESTED TO REVIEW THIS MATTER TO DETERMINE THE FEASIBILITY AND BEST METHOD OF SECURING SUCH

PAGE FOUR SA 7-1215 UNCLAS

IMMUNITY SHOULD IT BECOME NECESSARY AND TO ADVISE THE MEANS THAT SHOULD BE PURSUED WITH JUVENILE JUDGE STRICKLAND, BARTO, FLORIDA, TO LIFT THE "GAG" ORDER OF WHICH [REDACTED] IS A SUBJECT.

AUSA JACK O'DONNELL, AUSTIN, TEXAS, GENERALLY AGREES WITH THIS APPROACH BUT EXPRESSES CONCERN OVER THE POSSIBILITY OF PREJUDICING ANY MURDER CASES BEING INVESTIGATED BY LOCAL JURISDICTIONS.

b7C

ALL RECEIVING OFFICES ARE REQUESTED TO EXPEDITE REMAINING LEADS AND TO FURNISH THE BUREAU, SAN ANTONIO AND JACKSONVILLE WITH COPIES OF ALL COMMUNICATIONS.

ATLANTA IS REQUESTED TO OBTAIN PHOTOS AND FULL DESCRIPTIONS OF MISSING PERSON [REDACTED] AS WELL AS ALL DETAILS REGARDING HER DISAPPEARANCE FOR REINTERVIEW OF LUCAS AND PHOTO SPREAD DISPLAY.

BT

SVO 005 077 2125Z

RR HQ JK SA

DE SV

10 MAR 85 22 10

FEDERAL BUREAU OF INVESTIGATION

R 18 2125Z MAR 85

FM SAVANNAH (7-1052) (RUC)

TO DIRECTOR ROUTINE

JACKSONVILLE ROUTINE

SAN ANTONIO (7-1215) ROUTINE

BT

UNCLAS

ATTN: [REDACTED] PERSONAL CRIMES UNIT

HENRY LEE LUCAS; [REDACTED] KIDNAPPING

MATTERS. OO: SA.

RE SAN ANTONIO AIRTEL TO DIRECTOR DATED 2/15/85, SAN ANTONIO
TELETYPE TO DIRECTOR DATED 3/13/85. DE-1337-19658-11X

ON 3/18/85 [REDACTED] CHIEF OF DETECTIVES, COLUMBIA
COUNTY SHERIFF'S OFFICE, MARTINEZ, GEORGIA, ADVISED A REVIEW OF
HIS DEPARTMENT'S RECORDS REVEALED NO KIDNAPING OR MISSING PERSON
REPORTS IDENTIFIABLE WITH [REDACTED] (PHONETIC) WHO LUCAS REPORTED
PICKING UP NEAR MARTINEZ, GEORGIA, IN JUNE, 1980. DETECTIVE [REDACTED]
[REDACTED] RICHMOND COUNTY POLICE DEPARTMENT, AUGUSTA, GEORGIA,

Exec AD Adm.	
Exec AD-1	
Exec AD-2	
Asst. Dir.:	
Adm. Servs.	
Crim. Inv.	
Ident.	
Insp.	
Intell.	
Lab.	
Legal Coun.	
Off. Cong. & Public Affs.	
Rec. Mgmt.	
Tech. Servs.	
Training	
Telephone Rm.	
Director's Sec'y	

b7C

DE-133

PAGE TWO SV 7-1052 UNCLAS

ADVISED THAT A SIMILAR REVIEW OF THE RECORDS WITH THE RICHMOND COUNTY
POLICE DEPARTMENT REVEALED NO KIDNAPING OR MISSING PERSON REPORTS
IDENTIFIABLE WITH [REDACTED] (PHONETIC) WHICH WAS REPORTED TO HAVE
TAKEN PLACE IN JUNE, 1980. GA

b7C

THERE BEING NO FURTHER INVESTIGATION WITHIN THE SAVANNAH
DIVISION, THE MATTER IS BEING RUC.

BT

AIRTEL

4/1/85

Director, FBI

SAC, San Antonio

HENRY LEE LUCAS. [redacted]

[redacted]
KIDNAPPING MATTERS

b7C

Re 3/13/85 San Antonio teletype, in which Legal Counsel Division (LCD) is requested to determine the feasibility and best method of securing immunity for [redacted] and to advise how to interview [redacted] in light of a gag order placed upon him by a state court judge before whom he is presently being prosecuted on state charges.

The extent of the gag order is unknown to LCD. It is probably designed to protect the privacy of [redacted] victims, and may not extend to interviews by law enforcement officers concerning Federal crimes. If the order is all-inclusive, Special Agents should approach the United States Attorney's office and request that a representative of that office coordinate with local prosecutors and police a contact with the judge to request some form of exemption.

b7C

The feasibility of Federal use immunity cannot be determined at this time. Apparently San Antonio does not know whether [redacted] would refuse or is likely to refuse to provide grand jury testimony or information on the basis of the privilege against self-incrimination, a necessary pre-requisite to the grant of Federal immunity. [redacted] and/or his attorney will have to be interviewed in order to determine this fact. The other pre-requisites are: 1) [redacted] cooperation must appear to be necessary to the public interest; and 2) other means of obtaining the desired cooperation are unavailable or would not be effective.

b7C

1 - [redacted] b7C
1 - Legal Research Detached

JOC:tkc (3)

MAIL ROOM []

JUN 7 1985

Exec AD Adm	
Exec AD Inv	
Exec AD LES	
Asst Dir	
Adm Serv	
Crim Inv	
Ident	
Insp	
Intell	
Lab	
Legal Coun	
Off Cong & Public Affs	
Rec Mgmt	
Tech Serv	
Training	
Off Liaison & Int. Affs	

Airtel to SAC, San Antonio
Re: Henry Lee Lucas

The immunity process is somewhat complicated. San Antonio is directed to the Federal immunity statutes, Title 18, U.S.C., Section 6001 et seq., and the U.S. Attorney's Manual, Volume 1, Section 11, and Volume 9, Section 27, for further information. Immunity is secured by the United States Attorney's office through a request for authorization from the Assistant Attorney General, Criminal Division, Department of Justice. The authorization allows the USA to obtain a compulsion order from the Federal Magistrate. See Title 18, United States Code, (U.S.C.), Section 6003. The FBI plays no part in the formal immunity process and Agents should in no way indicate that they have any authority in this matter. [redacted] and/or his attorney may be very circumspect and refuse to give the interviewing Special Agents any indication as to whether or not [redacted] has knowledge of incriminating information. In such a case, the USA's office should contact [redacted] attorney directly and begin negotiating towards a proffer, or non-binding agreement, wherein [redacted] outlines what he knows so that the USA can decide whether immunity would be worth applying for. In any event, LCD suggests San Antonio continue to discuss this issue with the USA's office and advise the interviewing Agents as appropriate.

b7C

Re teletype notes that the Assistant USA is concerned about prejudicing any pending state or local murder investigations. This is certainly a factor to be considered when and if a decision is made to grant immunity to [redacted]. The immunity granted is Federal use immunity and if so limited, would not bar subsequent state prosecutions of [redacted]. It would, however, place a heavy burden of proof on a state prosecutor to show an independent source for each item of evidence untainted by the immunized testimony. This burden cannot be met simply by denying any direct use of the Federal immunized testimony, for Kastigar v. United States, 406 U.S. 441 (1972), and Murphy v. Waterfront Commission, 378 U.S. 52 (1964), both forbid direct and indirect use of previously immunized testimony. This difficulty is one reason why requests for Federal immunity are reviewed carefully by the DOJ and only authorized in unusual circumstances.

b7C

NOTE: Response to San Antonio teletype requesting legal advice as to the conferral of immunity on Defendant [redacted]

- 2 -

APPROVED

Director _____
Exec AD-Adm _____
Exec AD-Inv _____
Exec AD-LES _____

Adm Serv _____
Crim Inv _____
Ident _____
Inspection _____
Intell _____
Laboratory _____
Legal Coun _____
Off of Cong & Public Affs _____
Rec Mgnt _____
Tech Servs _____
Training _____

IP0006 0782241

RR HQ SA JK

DE IP

R 192100Z MAR 85

FM INDIANAPOLIS (7-1962) (RUC)

TO DIRECTOR ROUTINE

SAN ANTONIO (7-1215) ROUTINE

JACKSONVILLE ROUTINE

BT

UNCLAS

ATTENTION: [REDACTED], PERSONAL CRIMES UNIT AND
LEGAL DIVISION. *IN*
HENRY LEE LUCAS; *DI* [REDACTED] *DI* KIDNAPING
MATTERS; OO: SAN ANTONIO.

RE SAN ANTONIO AIRTEL TO DIRECTOR, FEB. 15, 1985.

EXTENSIVE INQUIRIES AT INDIANAPOLIS, INDIANA, WITH THE
INDIANA STATE POLICE (ISP), MARION COUNTY, INDIANA, SHERIFF'S
DEPARTMENT, AND INDIANAPOLIS, INDIANA, POLICE DEPARTMENT,
MISSING PERSONS AND JUVENILE BRANCHES, HAS RESULTED IN NO
POSITIVE INFORMATION TO INDICATE THE ALLEGED KIDNAPING BY
LUCAS AND [REDACTED] AT INDIANAPOLIS, INDIANA, IN 1979, AS SET

b7C

4 MAR 28 1985

Exec AD Adm.	
Exec AD Inv.	
Exec AD Leg.	
Exec AD Plan.	
Exec AD Rec.	
Exec AD Tech.	
Exec AD Training	
Exec AD Other	
Asst. Dir.:	
Adm. Serv.	
Crim. Inv.	
Ident.	
Insp.	
Intell.	
Lab.	
Legal Coun.	
Off. Cong. & Public Affs.	
Rec. Mgmt.	
Tech. Serv.	
Training	

b7C

b7C

4 MAR 28 1985

PAGE TWO INDIANAPOLIS (7-1962) UNCLAS

FORTH ON PAGE EIGHTEEN (18) OF FD-302 OF LUCAS DATED
FEB. 1, 8 AND 11, 1985, AT GEORGETOWN, TEXAS.

IN VIEW OF THE ABOVE, NO FURTHER INVESTIGATION IS BEING
CONDUCTED AT INDIANAPOLIS.

BT

FBI

TRANSMIT VIA:

☐ Teletype
☐ Facsimile
☒ AIRTEL

PRECEDENCE:

☐ Immediate
☐ Priority
☐ Routine

CLASSIFICATION:

☐ TOP SECRET
☐ SECRET
☐ CONFIDENTIAL
☐ UNCLAS E F T O
☐ UNCLAS

Date 3/21/85

TO: DIRECTOR, FBI
 (Attn: [redacted] PCU) b7C

FROM: SAC, LOS ANGELES (7-2500) (C-1) (RUC)

RE: HENRY LEE LUCAS;
 ET AL
 KIDNAPPING MATTERS - CA
 OO: San Antonio

Re Los Angeles airtel to Bureau dated 3/13/85.

On 3/19/85, the following persons were contacted by
 Special Agent (SA) [redacted]

[redacted] San Bernardino Sheriff's Office,
 Homicide

b7C [redacted] Redlands Police Department,
 Chief of Detectives

Detective [redacted] Colton Police Department,
 Homicide. (RW)

Detective [redacted] San Bernardino Police Department,
 Homicide.

Based on information furnished by LUCAS when inter-
 viewed on 2/1, 2/8, and 2/11/85, regarding a kidnap he
 committed in San Bernardino, California, one of the above
 mentioned agencies would have jurisdiction. None of the
 four persons contacted had personal knowledge of nor did the
 respective departments' records reflect any such crime.

③ Bureau / Room 5042 3/26/85 B
 2- San Antonio (7-1215)
 1- Los Angeles
 JGk:rs
 (6)

MAR 25 1985

b7C

Approved. _____ Transmitted _____ Per _____
 (Number) (Time)

57 JUL

CAH

LA 7-2500

Thus, it appears remote that LUCAS did commit a crime as he described in the San Bernardino, California, area.

FBI

TRANSMIT VIA:

☐ Teletype
☐ Facsimile
☒ AIRTEL

PRECEDENCE:

☐ Immediate
☐ Priority
☐ Routine

CLASSIFICATION:

☐ TOP SECRET
☐ SECRET
☐ CONFIDENTIAL
☐ UNCLAS E F T O
☐ UNCLAS

Date 3/19/85

TO: DIRECTOR, FBI

FROM: SAC, NEWARK (7-1678) (P) (C-1)

HENRY LEE LUCAS:

[REDACTED] b7C
 KIDNAPING MATTERS
 00: SAN ANTONIO

Re: San Antonio airtel to the Bureau, dated 2/15/85.
 San Antonio teletype, dated 3/13/85.

For information of San Antonio and Baltimore Divisions, there is no New Castle, NJ. Reference made by LUCAS to New Castle, NJ, may refer to New Castle, Delaware, which is handled by Baltimore Division.

[REDACTED] NEW JERSEY COMMISSION ON MISSING CHILDREN, advised a young white male, still unidentified, was discovered in 1979 in Salem County, NJ, shot through the eye with a .22 caliber. Salem County is directly across the Delaware River from New Castle, Delaware.

[REDACTED] is searching all past records for missing and killed children in New Jersey and Newark will advise San Antonio.

② - Bureau / Room 5042 3/22/85 RTH
 2 - Baltimore (Info)
 2 - Jacksonville (Info)
 2 - San Antonio (7-1215)
 2 - Newark
 WJA/td
 (10)

17 MAR 21 1985

Approved: *[Signature]*

Transmitted

(Number)

(Time)

Per *[Signature]*

53 MAY 17 1985

259

FBI

TRANSMIT VIA.

☐ Teletype
☐ Facsimile
☒ AIRTEL

PRECEDENCE:

☐ Immediate
☐ Priority
☐ Routine

CLASSIFICATION.

☐ TOP SECRET
☐ SECRET
☐ CONFIDENTIAL
☐ UNCLAS E F T O
☐ UNCLAS

Date 4/24/85

TO: DIRECTOR, FBI
 (ATTENTION: [REDACTED] PERSONAL CRIMES UNIT)

FROM: SAC, PHILADELPHIA (7-1934) (SQ10) (P)

SUBJECT: HENRY LEE LUCAS: b7C
 [REDACTED]

KIDNAPPING MATTER
 OO: SAN ANTONIO

Re SA airtel to Bureau, 2/15/85 with attached FD-302's and Bureau airtel to all offices, 3/15/85.

Enclosed for Bureau and receiving offices are PHILADELPHIA POLICE DEPARTMENT (PHPD) Missing Person Report on MICHAEL J. MC COOL and copy of excerpt of story and photo of MICHAEL J. MC COOL.

For the information of the Bureau and receiving offices, DETECTIVE [REDACTED] Missing Persons Unit, Juvenile Aid Division, PHPD, was contacted following receipt of referenced airtel. After review of FD-302's of subjects LUCAS and [REDACTED] [REDACTED] advised that only one missing child case generally fits the facts provided by LUCAS of an abduction in Philadelphia, Pennsylvania.

[REDACTED] advised that MICHAEL MC COOL, white male, date of birth (DOB) [REDACTED] has been missing since 6/29/78. PHPD has little lead information available. The best possible witness, a childhood friend of MC COOL'S, MICHAEL DOUGHERTY, committed

- ④ - Bureau
 2 - Jacksonville
 2 - San Antonio (7-1215)
 2 - Philadelphia (7-1934) (SQ10)

DJM:lac
 (10)

2-ENCLOSURE

Approved

Transmitted

Per

(Number)

(Time)

2 JUN 29 1985

PH 7-1934

suicide shortly after MC COOL's disappearance. DOUGHERTY made reference to something terrible in which he had taken part. Investigation by PHPD has been unable to determine meaning of DOUGHERTY'S statement.

[] has requested that LUCAS be reinterviewed in order to determine if MC COOL could be LUCAS' victim from Philadelphia. Interview should also attempt to determine if LUCAS could have used DOUGHERTY to lure MC COOL to LUCAS.

b7C

For the information of the Bureau and receiving offices, [] advised that MC COOL'S mother has given out all photos of her son and that the enclosed copy is the best available.

REQUEST OF THE BUREAU

Bureau is requested to provide enclosure and background information to Legat Mexico City as per referenced Bureau airtel dated 3/15/85.

LEADS

SAN ANTONIO
AT GEORGETOWN, TEXAS

Is requested to re-interview LUCAS as set forth above.

PHILADELPHIA
AT PHILADELPHIA, PA

Investigation continuing.

17400

ENCLOSURE

Search Underway Here For 14-Year Old Boy Missing Since June 28th

An urgent plea was made to the Guide Newspapers this week calling upon the readers in an effort to locate a young 14-year-old Kensington boy, Michael J. McCool, 2205 E. Albert St., who has been missing since Wednesday, June 28th.

Available information has disclosed that young Michael was last seen by his mother Mrs. Rita M. McCool at approximately 9:30 a.m. on Wednesday, June 28, 1978 at their residence at 2205 E. ALBERT St. At that time Michael was dressed in a pair of dungaree cut-offs, a white T shirt and white socks and sneakers. He recently graduated from The HACKETT Public School and he was in apparent good mental condition with no obvious problems. Friends and neighbors have been notified, but as of this date, no conclusive information has been forthcoming.

Michael is approximately 5 ft. tall, 100 lbs., with blue eyes and reddish brown hair which he wears parted in the middle and which is cut to the nape of

(Continued on Page 9)

Have You Seen Mike?



MICHAEL MCCOOL

GUIDE NEWSPAPER - Date July 20th 1978

Have You Seen Mike?

(Continued from Page 1)

his neck.

In the event that anyone has any information whatever regarding Michael's whereabouts or destination, kindly call Policewoman ROGAN of The Philadelphia Police Juvenile Aid Division (MU 6-3204) or The KENSINGTON COMMUNITY PAROLE Center at 345 Kensington Avenue (218-3572, 73, 74, 74) All State Police Agents in the Center are familiar with this child.

19658-16

297

MESSAGE RELAY VIA TELETYPE
(RESTRICTED USE)Date 4/26/85 PRECEDENCE ☐ IMMEDIATE ☒ PRIORITY ☐ ROUTINE

FM DIRECTOR, FBI

TO Legats, Mexico City
Ottawa

- ☐ White House/WH/
- ☐ Bureau of Alcohol Tobacco Firearms/BATF/
- ☐ Central Intelligence Agency/CIA/
- ☐ CIA DCD/DCD/
- ☐ Dept of Energy HQS/DOEHQ/
- ☐ Dept of Energy Germantown DIV/DOE/
- ☐ Dept of Justice/DOJ/
- ☐ Dept of State/DOS/
- ☐ Dept of the Army/DA/
- ☐ Dept of Treasury/DOT/
- ☐ Defense Intelligence Agency/DIA/
- ☐ Director National Security Agency/NSA/
- ☐ Director Naval Investigative Service/DIRNAVINSERV/
- ☐ Drug Enforcement Admin /DEA/
- ☐ FAA Washington HQ/FAA/
- ☐ HQ AFOSI Bolling AFBDC/AFOSI/
- ☐ INSCOM Ft Meade/INSCOM/
- ☐ Nuclear Regulatory Commission/NRC/
- ☐ U S Customs Service/UCS/
- ☐ U S Immigration & Naturalization Service/INS/
- ☐ U S Secret Service/USSS/
- ☐ Other _____

BT

Classification Unclas

Addressee Internal Distribution

For _____

b7C

Subject HENRY LEE LUCAS; KIDNAPING MATTERS; OO: SAN ANTONIO☐ See Attached

Approved By 	Originator JDC: 	Tele Ext b7C	Room/Div 5046/6
--	--	---	--------------------

22517K

DO NOT FILE WITHOUT COMMUNICATIONS STAMP

USE AND PREPARATION OF FORM 0-73

Restrictions on Use

- 1 Only incoming teletype messages within the categories listed in MIOG Section 16-1 7 pages 1251 & 1252 may be prepared using form 0-73
- 2 Use of Form 0-73 is restricted to incoming teletype messages received at FBIHQ Communications Center within the last 72 hours
- 3 Addressees must be Bureau Offices (LEGAT/Field) or other Government Agencies **Geographical location must be indicated if other Government Agency is located outside the Washington, D C area.**
- 4 Editing of message text is restricted to typed or printed changes of a word or two Changes to the existing text involving more than a word or two will require the originator to initiate a new message using Form 0-93 Administrative data may be added immediately following the text and must be identical for all addressees
- 5 Teletype messages received by the Communications Center that do not meet the above criteria shall be returned to the originator for preparation using Form 0-93

Preparation of 0-73 Form (Yellow)

- 1 **Date & Precedence** - Type or print date and indicate precedence by checking the appropriate box
- 2 **Addressee(s)** - Type or print addressee(s) immediately following the "TO " or place a check mark in the appropriate box Note When using block "Other," indicate geographical location if addressee(s) is located outside Washington, D C If addressee(s) is a military installation, the name of the base, fort, or station must be listed to ensure delivery
- 3 **Classification** - Type or print the classification and if appropriate the caveat and warning notices
- 4 **Addressee Internal Distribution** - Complete when the originator wishes the message to be distributed to a known entity within a Headquarters Agency (i.e. Division, Section, Unit, etc) List the addressee(s) abbreviation and the internal distribution, i.e. a message to Dept of State, Dept of Justice, and Defense Intelligence Agency, list on the "For" line(s) as follows
Example: For DOS For SY/TAG, DOJ for Asst AG Criminal Div , DIA For DSOP
Messages which do not list internal distribution shall be delivered to the agency headquarters where their analyst will effect in-house distribution
- 5 **Subject** - Type or print the subject in the space provided or check "see attached" if subject is identical to attached message
- 6 **Originator's Boxes** - Type or print the originator's name, telephone extension, room number, and division
- 7 **Approved By Box** - Indicate approval for transmission by initialing the approved by box Note The person approving the message is solely responsible for assuring all necessary editing changes are accurate and are legible

Preparation of Message To Be Transmitted

- 1 **Duplicate Copy & Notations** - Xerox 1 copy of the incoming teletype message A notation shall be made on the original incoming teletype indicating one copy made for relay to SACS _____, (or LEGATS) _____, (or Government Agencies) _____
- 2 **Editing of Duplicate Copy (Heading)** - Using a lead pencil ONLY draw single lines through the first and last lines of the message heading, connect these lines from top right to bottom left forming a "Z" figure **(Do Not Obliterate the Heading)**
- 3 **Editing Changes to the Text** - (See Restrictions on Use, item 4)
- 4 **Administrative Data** - Type or print administrative data immediately following the text

3A0303 1161356Z

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P 231353Z APR 35

FM SAN ANTONIO 7-1215 (P)

TO DIRECTOR 7-1964C PRIORITY

ATLANTA PRIORITY

BALTIMORE PRIORITY

CHICAGO PRIORITY

CLEVELAND PRIORITY

DALLAS PRIORITY

DETROIT PRIORITY

EL PASO PRIORITY

INDIANAPOLIS PRIORITY

JACKSONVILLE PRIORITY

LOS ANGELES PRIORITY

MIAMI PRIORITY

NEWARK PRIORITY

OKLAHOMA CITY PRIORITY

PHILADELPHIA PRIORITY

PITTSBURGH PRIORITY

RICHMOND PRIORITY

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Rec. Mgmt.	
Tech. Serv.	
Training	
Telephone Rm.	
Director's Sec'y	

b7C

MB

PAGE TWO SA 7-1215 UNCLAS

SAVANNAH PRIORITY

TAMPA PRIORITY

BT

UNCLAS

ATTN: SUPERVISOR [REDACTED]

b7C

HENRY LEE LUCAS; [REDACTED]; KIDNAPING

MATTERS, OO: SAN ANTONIO

By teletype dated 4/16/85 FBI San Antonio furnished the following:
~~RE SAN ANTONIO AIRTEL TO BUREAU, FEBRUARY 15, 1935.~~

FOR INFORMATION OF THE BUREAU AND RECEIVING OFFICES,
SUBJECT LUCAS WAS REMOVED FROM WILLIAMSON COUNTY JAIL, GEORGETOWN,
TEXAS, ON APRIL 12, 1935, WHERE HE HAD BEEN HELD FOR APPROXIMATELY
ONE AND ONE HALF YEARS TO MC LEINAN COUNTY, WACO, TEXAS, TO
APPEAR BEFORE A LOCAL GRAND JURY INVESTIGATING TWO MURDERS
TO WHICH LUCAS HAD PREVIOUSLY CONFESSED. THE REMOVAL WAS
BASED ON A BENCH WARRANT SIGNED BY TEXAS ATTORNEY GENERAL
JIM MATTOX AND WITHOUT PRIOR CONSULTATION WITH THE TEXAS
DEPARTMENT OF PUBLIC SAFETY (DPS), HOMICIDE TASK FORCE THAT
HAS COORDINATED THE LUCAS INVESTIGATION.

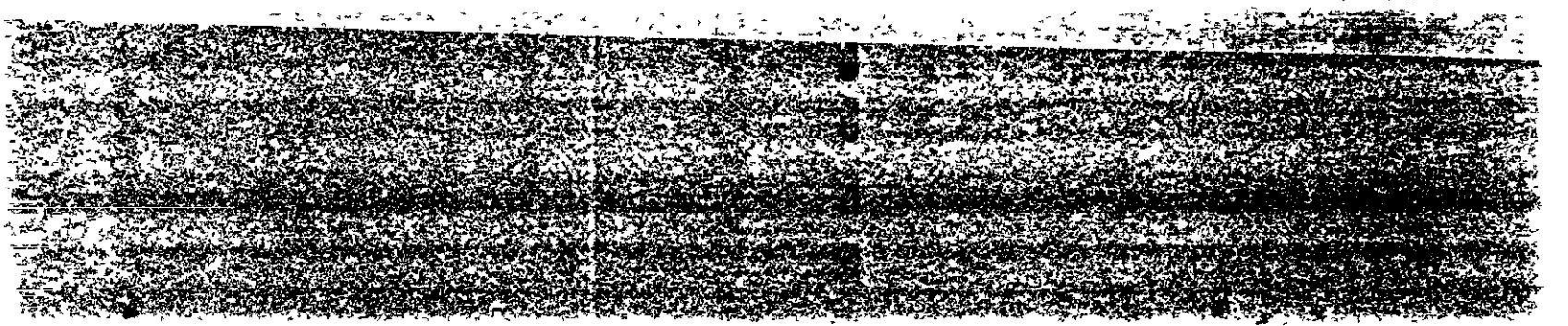
LUCAS WAS NOT TO APPEAR BEFORE THE GRAND JURY UNTIL
APRIL 17, 1935, AND DURING HIS INCARCERATION IN MC LEINAN

PAGE THREE SA 7-1215 UNCLAS

COUNTY, DPS TASK FORCE MEMBERS WERE DENIED ACCESS TO LUCAS. ALLEGATIONS OF LUCAS BEING DENIED AN ATTORNEY WERE MADE BY A CONFIDANT OF LUCAS WHO WAS PERMITTED TO VISIT HIM. SPECIAL AGENTS ATTEMPTED TO INTERVIEW LUCAS RE THESE ALLEGATIONS ON APRIL 17, 1935, PRIOR TO HIS GRAND JURY APPEARANCE BUT WERE DENIED ACCESS TO LUCAS BY MATTOX AND MC LENJAM COUNTY DISTRICT ATTORNEY [REDACTED] THAT SAME MORNING LUCAS WAS APPOINTED AN ATTORNEY BY THE LOCAL JUDGE.

INTERVIEWS OF LUCAS' CONFIDANT DETERMINED THAT [REDACTED] b7C WAS HOLDING PRAYER SESSIONS WITH LUCAS AND THE CONFIDANT AND PRESSURING LUCAS TO RECAP ALL OF HIS MURDER CONFESSIONS. THE CONFIDANT WAS ALSO PRESSURED TO STAND BY AND SUPPORT LUCAS IN THIS "ORDEAL" SO THAT HE WOULD HAVE THE STRENGTH TO GO BEFORE THE GRAND JURY AND RECAP HIS EARLIER CONFESSIONS.

ACCORDING TO THE CONFIDANT, LUCAS WAS TOLD THAT HE DID NOT BELONG ON DEATH ROW AND COULD POSSIBLY BE TRANSFERRED TO A FEDERAL PRISON AT A LATER DATE WHERE HIS CONFIDANT COULD READILY VISIT HIM. HE WAS ALSO TOLD THAT STATE ATTORNEY GENERAL INVESTIGATORS HAD PROOF THAT HE HAD NOT KILLED ANYONE AND HIS



PAGE FOUR SA 7-1215 UNCLAS

EARLIER CONVICTIONS WOULD HAVE TO BE REVIEWED AND POSSIBLY SET ASIDE.

LUCAS APPEARED BEFORE THE COUNTY GRAND JURY TO TESTIFY AND HAS SINCE PUBLICLY RECAUNTED ALL OF HIS EARLIER CONFESSIONS SAYING HE PROVIDED FALSE CONFESSIONS BECAUSE HE WAS ANGRY WITH LAW ENFORCEMENT OFFICIALS FOR CHARGING HIM WITH A WEAPONS CHARGE OF WHICH HE WAS NOT GUILTY.

ON APRIL 19, 1985, USDJ, WDT, SAN ANTONIO, ISSUED A WRIT OF HABEAS CORPUS ORDERING THE MC LENNAN COUNTY SHERIFF TO IMMEDIATELY PRODUCE LUCAS SO HE COULD APPEAR BEFORE A FEDERAL GRAND JURY ON APRIL 24, 1985, IN SAN ANTONIO. THE SHERIFF REFUSED TO OBEY THE WRIT BASED ON RECOMMENDATIONS OF MATTOX AND [REDACTED] MEANWHILE, MATTOX APPEALED THE WRIT BEFORE THE U. S. 5TH CIRCUIT COURT OF APPEALS WHERE IT WAS UPHELD AND FINALLY BEFORE THE U. S. SUPREME COURT WHERE THE WRIT WAS ALSO UPHELD. b7C

ON APRIL 24, 1985, LUCAS WAS BROUGHT TO SAN ANTONIO AND PRIOR TO HIS FGJ APPEARANCE, INTERVIEWED BY AUSAS AND A SPECIAL AGENT. LUCAS MAINTAINED THAT HIS CIVIL RIGHTS WERE NOT VIOLATED, THAT THE ONLY PERSON HE HAS EVER KILLED WAS HIS MOTHER, AND

PAGE FIVE SA 7-1215 UNCLAS

HE HAS SERVED TIME FOR THAT MURDER. HE ALSO STATED THAT HE MADE UP ALL OF THE CHILD KIDNAPINGS SET FORTH IN AN EARLIER INTERVIEW. LUCAS WAS SHOWN A PHOTO OF [REDACTED] EAST POINT, GEORGIA, WHOSE DESCRIPTION AND CIRCUMSTANCES OF DISAPPEARANCE RESEMBLE AN INCIDENT PREVIOUSLY DESCRIBED BY LUCAS. LUCAS DID NOT IDENTIFY HER PHOTO IN THE SPREAD SAYING THAT HE DID NOT KIDNAP A YOUNG WHITE FEMALE IN EAST POINT. b7C

LUCAS' RECENT DENIALS SEEM TO BE MOTIVATED BY SELF-PRESERVATION AND AN INTEREST IN PROMISES OR SUGGESTIONS OF PROMISES MADE BY MATTOX AND [REDACTED], COUPLED WITH THE RELIGIOUS FEELINGS AND ASSURANCES GENERATED BY [REDACTED] WHO IS ALSO A BAPTIST MINISTER WITH HIS OWN LOCAL CONGREGATION. b7C

IN VIEW OF THE ABOVE, SAN ANTONIO WILL NOT AT THIS TIME PURSUE AN INTERVIEW WITH [REDACTED] UNTIL INVESTIGATION BY LEGAT, MEXICO IS COMPLETED AND SAN ANTONIO CAN REVIEW RESULTS OF JACKSONVILLE INTERVIEW OF [REDACTED] AS WELL AS RESULTS OF b7C INQUIRIES MADE BY RECEIVING OFFICES WHO HAVE NOT PREVIOUSLY REPORTED TO SAN ANTONIO.

~~BUREAU IS REQUESTED TO PROVIDE ABOVE INFORMATION TO LEGAT, MEXICO CITY AND OTTAWA.~~

BT

Memorandum

To Director, FBI ()

Date 4/29/85

From Legal Attache, Ottawa (7A-96)(P)

Subject HENRY LEE LUCAS;
KIDNAPING MATTERS
OO: SAN ANTONIO

b7C

Reference. Butel 4/26/85.

Dissemination, as outlined below, was made on dates indicated

☐ _____ copies of☒ Pertinent information from re tel.Name and Location of AgencyDate Furnished

b7D

4/29/85

7-19658-

NOT RECORDED

* MAY 6 1985

2 JUN 29 1985

2 Bureau
2-Ottawa
(1 66-135)
RDS:djl
(4)

26

FBI

TRANSMIT VIA

☐ Teletype
☐ Facsimile
☒ AIRTEL

PRECEDENCE

☐ Immediate
☐ Priority
☐ Routine

CLASSIFICATION

☐ TOP SECRET
☐ SECRET
☐ CONFIDENTIAL
☐ UNCLAS E F T O
☐ UNCLAS

Date 5/8/85

TO: DIRECTOR, FBI
 FROM: *mm* LEGAT, MEXICO CITY (7-141) (P)
 SUBJECT: HENRY LEE LUCAS;

[REDACTED] b7C
 KIDNAPPING MATTERS
 OO: SAN ANTONIO

Re Mexico City airtel to Director FBI dated 5/3/85, and San Antonio airtel to Director FBI dated 3/27/85.

On 5/6/85, a Confidential Source Abroad (CSA) advised that he had traveled to Zimapan, Hidalgo, and had located the intersection of highways 85 and 45 near Zimapan. CSA stated that highway 85 is the highway which circulates from Mexico, D.F., to Nuevo Laredo, Tamaulipas, passing through Tamasunchale. Highway 45 circulates from San Juan del Rio, Queretaro, and ends shortly after it crosses highway 85 a little before entering Zimapan. The highway ends at a place known as Arboledo. The intersection of highways 85 and 45 is known as Portesuelo.

CSA gained the confidence of [REDACTED] who is a native of Zimapan, Hidalgo. [REDACTED] intersection of highways 85 and 45. CSA [REDACTED] unable to locate any house to the north of the intersection of highways 85 and 45 which bore the characteristics described by LUCAS. South of that intersection they located a large hacienda-style farm with a large one story house with the dimensions approximately the same as described by LUCAS. However the house does not have a fence around

- 5 - Bureau
 (1 - Liaison Unit, INTD)
 (2 - San Antonio, 7-1215)

1 - Mexico City

JMW:sdr

(6)

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 DATE 11-19-2001 BY SP 2 ALM/EHL

MAY 14 1985

Approved _____ Transmitted _____ Per _____
 (Number) (Time)

2 JUN 29 1985

MX 7-141
JMW:sdr

it nor does it have dark lumber strips as described by LUCAS. This farm is the only farm located near the intersection of the two highways and is close to a small town known as Tasquillo. The farm is owned by [REDACTED] who uses it for a horse stable and for production of food for cattle. The house is made of rock with the roof being of red colored tile. CSA conducted a neighborhood investigation in the area of the farm and determined that nothing abnormal had been noted by people living in the surrounding area and there were no reports of foreign people of North American characteristics coming to that farm. b7C

CSA located another house approximately one kilometer south of Zimapan which is a one floor large house which is used as offices and laboratory of a mining company known as San Miguel. The property is owned by [REDACTED] b7C
Hidalgo, [REDACTED] CSA interviewed [REDACTED]
that building whose name was [REDACTED]

[REDACTED] advised that she recalls one North American person who use to drive a large truck which transported minerals for the mining company. His name was [REDACTED] b7C
She recalled that this individual lived in a house located in the community of Fosfora north of Zimapan but outside of that American she has not had any news or noticed any strange or foreign people who may have come to that area to bring children for any purpose.

CSA concluded that the house as described by LUCAS does not exist near the intersection of highways 85 and 45.

LEADS:

LEGAT - MEXICO CITY. Will continue attempting to locate the areas in La Junta, Chihuahua, and San Jose de Pimas, Sonora, as described by LUCAS.

ADMINISTRATIVE:

The CSA mentioned above is [REDACTED] b2
b7D

FBI

TRANSMIT VIA

☐ Teletype
☐ Facsimile
☒ AIRTEL

PRECEDENCE

☐ Immediate
☐ Priority
☐ Routine

CLASSIFICATION

☐ TOP SECRET
☐ SECRET
☐ CONFIDENTIAL
☐ UNCLAS E F T O
☐ UNCLAS

Date 5/3/85

TO : DIRECTOR, FBI
 FROM : LEGAT, MEXICO CITY (7-141) (P)

SUBJECT: HENRY LEE LUCAS;

[REDACTED] b7C
KIDNAPPING MATTERS

OO: SAN ANTONIO

Re San Antonio airtel to the Bureau dated 3/27/85; Bureau teletype to Mexico City dated 4/26/85.

On 4/8/85, a Confidential Source Abroad (CSA) advised that he had traveled to Penon Blanco, Durango, and conducted investigation under suitable pretexts attempting to locate the area described by HENRY LEE LUCAS where he left children in Penon Blanco, Durango. CSA was able to determine that all of the residences in Penon Blanco are one story homes and was able to determine through his pretext interviews that there is only one two story building on the outskirts of Penon Blanco, which is an old building built in about 1850 by [REDACTED]. This building is known as "Fabrica de Guadalupe" (Guadalupe Factory). The building was built as a factory for cashmere. The building is located approximately one mile north of the town of Penon Blanco. CSA traveled to the large house over a dirt road and from his observations advised that the house meets the general description provided by LUCAS of the house at Penon Blanco.

CSA determined that the house was the property of the deceased governor of the State of Durango, ENRIQUE TORRES SANCHEZ. Approximately three years ago, [REDACTED] of Durango, [REDACTED] sold the house and surrounding property to [REDACTED].

5 - BUREAU
 1 - LIAISON UNIT, INTD
 2 - SAN ANTONIO (7-1215)
 1 - MEXICO CITY (7-141) ALL INFORMATION CONTAINED
 JMW/lav HEREIN IS UNCLASSIFIED

(6)

DATE 11-19-2001 BY SP 2 ALM/EHL

12 MAY 10 1985

Approved

Transmitted

(Number)

(Time)

Per

2 JUN 29 1985

MEX 7-141

came from Mexico City accompanied by a friend or lover. [REDACTED]

[REDACTED] This man has left leaving [REDACTED] house at the present time.

b7C

CSA observed that the house is an old building two floors of construction with the construction being of stone painted white. CSA described the house as having on the lower floor in the center of the house a large wooden door. There are six large archway type windows on either side of the door. Toward the back of the house in the patio area there is a fountain. The house has many rooms. On the second floor, source observed seven windows with archways and metal balconies. CSA observed on the left side of the house eleven small houses in a line, which are separated one from another. CSA supposed that in these small houses workers had lived. CSA observed another building with small houses on the right side of the large house. All of these other small houses and buildings are one floor buildings. On the northwest side of the large house is a long building which CSA observed was possibly used as a warehouse. Between this long house and the principal building, CSA observed a tower or old mill, which was reportedly built by [REDACTED] to grind silage for the cattle. CSA also noted on the right side of the house a high church belfry type construction. Behind the house, CSA observed a large water tank. The house is surrounded on all sides by farm type grounds. CSA observed that the house is now in a total rundown and uninhabited condition with the interior part of the house being almost in ruins. CSA observed that it appeared that it had been many years since the house had been occupied.

b7C

Under suitable pretext, CSA interviewed the owner of the large house, [REDACTED]

b7C

[REDACTED]
[REDACTED]
[REDACTED] from Mexico City. She does not actually reside inside the house which, as CSA described, was in a shambles, but lives in a small house next to the large house, but located on the same property as the house. [REDACTED] now has a pig farm on the property and also a number of beehives. She also has the surrounding farm land planted.

b7C

During the pretext interview, CSA recognized [REDACTED]

b7C

[REDACTED] for fear that

b7D

[REDACTED] would recognize CSA.

MEX 7-141

From the observations of CSA, it appears that the only possibility in Penon Blanco of the house described by HENRY LUCAS is the above described house which in general format matches the description of the house described by HENRY LEE LUCAS.

Investigation continues in Mexico to attempt to identify locations described by LUCAS at San Jose de Pimas, Sonora; La Junta, Chihuahua; and Zimapan, Hidalgo.

ADMINISTRATIVE

The CSA mentioned above is b2
b7D

FBI

TRANSMIT VIA.

☐ Teletype
☐ Facsimile
☐ AIRTEL

PRECEDENCE

☐ Immediate
☐ Priority
☐ Routine

CLASSIFICATION

☐ TOP SECRET
☐ SECRET
☐ CONFIDENTIAL
☐ UNCLAS E F T O
☐ UNCLAS

Date 6/10/85

TO: DIRECTOR, FBI
 FROM: LEGAT, OTTAWA (7-96)(P)

HENRY LEE LUCAS;

b7C

KIDNAPING MATTERS
 OO: SAN ANTONIO

Re San Antonio airtel 2/15/85.

Enclosed for FBIHQ and San Antonio are copies of [redacted]
 [redacted] letter dated 5/31/85.

Information furnished by [redacted] may not be reclassified or
 further disseminated outside the FBI without prior [redacted] authority.

LEADLEGAT OTTAWA

Will follow this matter with [redacted]

b7D

5-Bureau (Enc. 2)
 (1 Liaison Unit, INTD)
 (2 San Antonio)(7-1215)
 1-Ottawa

SPH:djl
 (6)

CC 5042
 (AK #1 Enc)

2 JUN 18 1985

Approved

Transmitted

(Number)

(Time)

Per

1 airtel & Enc. to SA by R/S
 1 Airtel 5042 1985
 7/9/85 AUG 5
 RFM/gj

FBI

TRANSMIT VIA.

☐ Teletype
☐ Facsimile
☐ AIRTEL _____

PRECEDENCE.

☐ Immediate
☐ Priority
☐ Routine

CLASSIFICATION

☐ TOP SECRET
☐ SECRET
☐ CONFIDENTIAL
☐ UNCLAS E F T O
☐ UNCLAS

Date 6/7/85

TO: DIRECTOR, FBI
 (ATTN: SUPERVISOR [REDACTED] PERSONAL CRIME UNITS)

FROM: SAC, SAN ANTONIO (7-1215)(P)

HENRY LEE LUCAS:

[REDACTED] b7C
 KIDNAPPING MATTER
 OO: SAN ANTONIO

Re Philadelphia airtel to Bureau, 4/24/85.

For the information of Philadelphia, in 4/85, serial murderer HENRY LEE LUCAS was abruptly transferred from the Williamson County Jail, Georgetown, Texas where he had been incarcerated for the previous 18 months to the McLennan County Jail, Waco, Texas pursuant to a writ signed by Texas State Attorney General JAMES MATTOX. MATTOX signed the writ at the request of McLennan District Attorney [REDACTED] who wanted LUCAS to appear before a County Grand Jury investigating several murders in the Waco area to which LUCAS had previously confessed. LUCAS was transferred without any previous consultation with the Texas Department of Public Safety Lucas Homicide Task Force which has handled all LUCAS interviews during his incarceration for an 18 month period.

While in the McLennan County Jail, LUCAS was subjected to prayer sessions with [REDACTED] and a defense attorney who was hastily appointed to represent LUCAS only hours before his appearance before the County Grand Jury. Prior to his appearance, LUCAS had been interviewed by [REDACTED] and others on his staff and the State Attorney

② - Bureau
 2 - Philadelphia
 2 - San Antonio
 GRR/rdw
 (6)

Approved

Transmitted

(Number)

(Time)

Per

53 AUG 14 1985

SA 7-1215

General's Staff for 4 days. During this period of time allegations were made that LUCAS had been denied an attorney and the United States Attorney for the Western District of Texas asked that FBI Agents interview LUCAS to determine his state of mind prior to his appearance before the County Grand Jury. An attempt was made; however, the State Attorney General refused to permit the interview.

Following his appearance before the County Grand Jury, LUCAS made public statements recanting all of his earlier murder confessions stating that the only person he ever killed was his own mother and he had already served time for that murder. Over the next several weeks, LUCAS changed his story several times, at one point stating that he had in fact committed the murders to which he had earlier confessed and at another point stating that he had not committed any murders.

In late 4/85, a U. S. District Judge signed a writ of Habeas Corpus ordering the McLennan County Sheriff to turn LUCAS over to Federal Marshal's so that he could appear before a Federal Grand Jury to determine if his civil rights had been violated during his incarceration in McLennan County. The State Attorney General fought the writ in the 5th Circuit Court of Appeals and in the Supreme Court but the writ was upheld on both occasions. LUCAS appeared before the Grand Jury and in an interview prior to his appearance told a Special Agent that his civil rights had not been violated and he had not committed the murders to which he had earlier confessed.

It appeared that MATTOX and [redacted] were intent upon discrediting LUCAS' murder confessions and the work of the Homicide Task Force while reaping the attendant National publicity. However, LUCAS' fragile mental and emotional state caused him to vacillate frequently thus discrediting anything he has said that is not independently corroborated. b7C

As of 6/5/85, LUCAS remains in McLennan County Jail and any further interviews regarding past crimes would appear to be of questionable value.

In view of the above, San Antonio will not interview LUCAS re disappearance of [redacted] Investigation by legat, Mexico City has not yet been completed and at such time this entire matter (all child kidnappings confessed to by LUCAS) will be reviewed to determine whether or not it should be pursued. For the information of Philadelphia, Jacksonville Division has interviewed [redacted] who admits to being involved in several child kidnappings along with LUCAS; however, none of the information provided by [redacted] supports any of the information provided by LUCAS and, in fact, [redacted] statement contained many contradictions. b7C

Memorandum



To Director, FBI () Date 10/25/85

From Legal Attache, OTTAWA - (7-96) (RUC)

Subject HENRY LEE LUCAS;

[Redacted Box]

b7C

KIDNAPPING MATTER
OO: SA

Reference San Antonio airtel to Bureau, 9/27/85.

Dissemination, as outlined below, was made on dates indicated

☐ _____ copies of

☒ Pertinent information from reairtel.

Name and Location of Agency

Date Furnished

[Redacted Box]

b7C

10/25/85

7-19658-
NOT RECORDED

4 NOV 4 1985

(2) - Bureau
1 - Ottawa, (1-66-135)
1 - SPH/be (1) 1985

FBI

TRANSMIT VIA

☐ Teletype
☐ Facsimile
☐ AIRTEL _____

PRECEDENCE.

☐ Immediate
☐ Priority
☐ Routine

CLASSIFICATION.

☐ TOP SECRET
☐ SECRET
☐ CONFIDENTIAL
☐ UNCLAS E F T O
☐ UNCLAS

Date 8/20/85

TO: DIRECTOR, FBI
 FROM: LEGAT, OTTAWA (7-96)(P)

HENRY LEE LUCAS

[REDACTED] b7C
 KIDNAPING MATTERS
 OO: SAN ANTONIO

Re Legat Ottawa airtel 6/10/85.

Enclosed for FBIHQ and San Antonio are copies of [REDACTED]
 [REDACTED] letter dated 8/16/85, enclosing
 [REDACTED] Edmonton, Alberta, report dated 7/3/85 and [REDACTED] Calgary,
 Alberta, report dated 5/29/85.

Information furnished by [REDACTED] may not be reclassified or
 further disseminated outside the FBI without prior [REDACTED] authority.

LEADSAN ANTONIO

Will furnish information requested by [REDACTED] in enclosed
 letter.

5-Bureau (Enc. 6) **ENCLOSURE**
 (1 Liaison Unit, INTD)
 (2 San Antonio)(7-1215)
 1-Ottawa

SPH:djl
 (6)

2 SEP 4 1985

Approved: _____ Transmitted _____ Per _____
 (Number) (Time)

SA by R/S (2AIT+3Enc)
 1 AIT-5042
 9/6/85
 RM/gal

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FBI

TRANSMIT VIA:

☐ Teletype
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PRECEDENCE:

☐ Immediate
☐ Priority
☐ Routine

CLASSIFICATION:

☐ TOP SECRET
☐ SECRET
☐ CONFIDENTIAL
☐ UNCLAS E F T O
☐ UNCLAS

Date 9/27/85

TO: DIRECTOR, FBI
 (ATTN: SUPERVISOR [REDACTED] PERSONAL CRIMES UNIT)

FROM: SAC, SAN ANTONIO (7-1215) (P)

HENRY LEE LUCAS;
 [REDACTED]

b7C

ALL INFORMATION CONTAINED
 HEREIN IS UNCLASSIFIED
 DATE 11-19-2001 BY SP 2 ALM/EHL

KIDNAPPING MATTER
 OO: SAN ANTONIO

Re Legat, Mexico City airtel, 5/3/85; Legat, Ottawa airtel, 8/20/85; and San Antonio airtel to Bureau, 6/7/85.

Enclosed for Legat, Mexico City and Legat, Ottawa is one copy of re San Antonio airtel.

For the information of the Bureau and receiving offices, HENRY LEE LUCAS has been transferred from the Mc Lennan County Jail, Waco, Texas to the Texas Department of Corrections, Huntsville, Texas to a cell on "Death Row." In view of the many conflicting statements given by LUCAS, especially over the last six to eight months, additional interviews are not contemplated.

For the information of Legat, Ottawa, no additional information has been developed regarding child labor camps in Mexico or child kidnappings in the United States which are possibly related to LUCAS or [REDACTED]

b7C

- ⑥ - Bureau
 (2-Legat, Mexico City) (7-141) (Enc. 1)
 (2-Legat, Ottawa) (7-96) (Enc. 1)
 2 - San Antonio
 GRR:mas
 (8)

ENCLOSURE

17 OCT 3 1985

Approved. JWD/cam

Transmitted

(Number)

(Time)

Per

2 cc Legat Mexico City
 + Ottawa by R/S
 15042
 10/4/85
 RFA/jf

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SA 7-1215

Legat, Mexico City is requested to furnish results of investigation conducted to identify locations described by LUCAS at San Jose De Pimas, Sonora; La Junta, Chihuahua; and Zimapan, Hidalgo. After results of this investigation are obtained, San Antonio will review this matter and close the investigation if no concrete information is developed which would substantiate LUCAS' claims.

REQUEST OF THE BUREAU

The Bureau is requested to forward one copy each of referenced airtel to Legat, Mexico City and Legat, Ottawa.

FBI

TRANSMIT VIA

☐ Teletype
☐ Facsimile
☒ AIRTEL

PRECEDENCE.

☐ Immediate
☐ Priority
☐ Routine

CLASSIFICATION.

☐ TOP SECRET
☐ SECRET
☐ CONFIDENTIAL
☐ UNCLAS E F T O
☐ UNCLAS

Date 10/25/85

TO: DIRECTOR, FBI
 ATTN: SUPERVISOR [REDACTED] PERSONAL CRIMES UNIT

FROM: SAC, SAN ANTONIO (7-1215) (C)

HENRY LEE LUCAS.

[REDACTED]
 KIDNAPPING MATTER
 OO: SA

b7C

ALL INFORMATION CONTAINED
 HEREIN IS UNCLASSIFIED
 DATE 11-19-2001 BY SP 2 ALM/EHL

Re San Antonio airtel to Bureau, 9/27/85 and
 Legat, Mexico City airtel to Bureau, 10/1/85.

For information of Legal, Ottawa and Tampa, Legat, Mexico City reports that extensive investigation in Mexico in the areas of La Junta, Chihuahua, San Jose de Pimas, Sonora, Penon Blanco, Durango, and Zimapan, Hidalgo in order to identify locations described by LUCAS in previous interviews has been negative with the exception of a possible location of one house in Penon Blanco. Neighborhood investigations in the areas described by LUCAS failed to develop any information, indicating that any North American children had been taken to the areas described.

In view of the above and inasmuch as numerous discrepancies were detected within LUCAS' own statements as well as between LUCAS' statements and a statement furnished by subject [REDACTED] San Antonio is of the opinion that LUCAS' assertions that he kidnapped children and transported them to Mexico for sale are false. Therefore, San Antonio contemplates no further investigation in this matter which is being placed in a closed status.

- ④ - Bureau
 1 - Legat, Mexico City (7-141) (Info.)
 1 - Legat, Ottawa (7-96) (Info.)
 1 - Tampa (62D-1809) (Info.)
 1 - San Antonio
 GRR:dlv
 (6)

1*

OCT 31 1985

Approved: [Signature]

Transmitted

Per

(Number)

(Time)

FBI

TRANSMIT VIA

☐ Teletype
☐ Facsimile
☒ AIRTEL

PRECEDENCE

☐ Immediate
☐ Priority
☐ Routine

CLASSIFICATION

☐ TOP SECRET
☐ SECRET
☐ CONFIDENTIAL
☐ UNCLAS E F T O
☐ UNCLAS

Date 10/1/85

TO : DIRECTOR, FBI
 FROM : LEGAT, MEXICO CITY (7-141) (RUC)
 SUBJECT: HENRY LEE LUCAS: TX
 [REDACTED] Mexico
 KIDNAPPING MATTER

b7C

OO: SAN ANTONIO

ALL INFORMATION CONTAINED
 HEREIN IS UNCLASSIFIED
 DATE 11-19-2001 BY SP 2 ALM/EHL

Re Mexico City airtels to the Bureau dated 5/3/85 and 5/8/85.

Confidential sources of Legat Office, Mexico City, have conducted extensive investigation in Mexico in the areas of La Junta, Chihuahua, San Jose de Pimas, Sonora, Penon Blanco, Durango, and Zimapan, Hidalgo, attempting to identify locations described by LUCAS in those areas. With the exception of information set forth in referenced Mexico City airtel to 5/3/85, describing a possible location of one house in Penon Blanco as described by LUCAS, all other investigation was negative. Neighborhood investigations in the areas described by LUCAS failed to develop any information indicating that any North American children had been taken to the areas described.

Considering the above information, Legat, Mexico City, is of the opinion that LUCAS' descriptions of the areas in Mexico must be discounted at present. If San Antonio desires to conduct further investigation regarding this matter, Legat, Mexico City, suggests that perhaps if U.S. law enforcement authorities and Mexican law enforcement authorities concur, LUCAS could be brought to Mexico under protective custody with accompanying Legat and FBI personnel to attempt to piece together his allegations of activities in Mexico. Absent this, further investigation in Mexico will be counterproductive.

In view of the above, Mexico City considers this matter RUC.

- 5 - BUREAU
 1 - LIAISON UNIT, INTD
 2 - SAN ANTONIO (7-1215)
 1 - MEXICO CITY (7-141)

JMW/lav

Approved
 (6)

Transmitted

(Number)

(Time)

Per

2 AIT/TA/SA by 117 JAN 22 1986
 1-5042
 10/11/85
 RFM/98



FREEDOM OF INFORMATION AND PRIVACY ACTS

SUBJECT HENREY LEE LUCAS



FEDERAL BUREAU OF INVESTIGATION

FBI

TRANSMIT VIA

☐ Teletype
☐ Facsimile
☒ Airtel

PRECEDENCE

☐ Immediate
☐ Priority
☐ Routine

CLASSIFICATION

☐ TOP SECRET
☐ SECRET
☐ CONFIDENTIAL
☐ E F T O
☐ CLEAR

Date 4/8/77

TO: DIRECTOR, FBI
 FROM: SAC, LITTLE ROCK (184-23) (P)
 SUBJECT: UNSUBS;
 ABE ISSAAC PIPKIN - VICTIM,
SECURITY POLICE OFFICER,
BEEBE, ARKANSAS,
POLICE DEPARTMENT
 POLICE KILLINGS
 OO: LR

Re Little Rock teletype to Bureau, 4/5/77.

Enclosed for the Bureau is a copy of check #10809 for City of Beebe which check was payable to victim. Also enclosed is a copy of Oath of Office signed by victim.

JAMES JACKSON, Chief of Police, Beebe, Arkansas, advised he was making available a copy of the enclosed documents to show that even though victim was considered a security police officer, he had the same powers of arrest as other individuals on the department except to make traffic arrests. JACKSON stated the enclosed copy of check issued to victim on 3/31/77, shows that victim used his own car and was paid expenses by the city for the use of his vehicle and further that the enclosed check shows that victim received his salary and expenses through police department appropriations.

Enclosures are being forwarded to the Bureau for any dissemination in the future that may be needed for benefits to victim's widow.

② - Bureau (Enc. 2)
 2 - Little Rock
 RLS/smf
 (4)

ENCLOSURE

DE-47

REC-113

184-565 1

24 APR 11 1977

Approved

Transmitted

(Number)

(Time)

Per

63 APR 10 1977

WILL
 CONFIDENTIAL
 TWO

Bureau

184 23
LR airtel 4/8/77

EVIDENCE

FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D. C.

EVIDENCE

FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D. C.



ENCLOSURE 184-565-1

Bal Fwd	STATEMENT OF ACCOUNT						Amount
	Deposits						
		Abe Pipkins					121.90
		U.A.					5.00
This Check		Car Exp					68.50
Bal Fwd							
Period Ending	Gross Salary	F O A B	W H Tax	Insurance	Other	Amount of Check	
		7.13	0	0	7.31	180.96	

Detach and keep this statement for your record
CITY OF BEEBE -- Beebe, Arkansas

CITY OF BEEBE

Beebe Arkansas 3-31 19 77

No. 10809

PAY TO THE ORDER OF Abe Pipkins \$ 180.96

One Hundred Eighty Dollars And 96/100

DOLLARS

Charge to Police Dept Fund By City Clerk

By Mayor By City Treasurer

NON NEGOTIABLE

81-588

To CITIZENS BANK . . . BEEBE, ARKANSAS

81-588

Bebe, Ark. 72012

I, W. L. Pickins, do solemnly swear (or affirm), I will support the Constitution of the United States, the Constitution of the State of Arkansas and the City Ordinances of the City of Beebe, Arkansas and that I will faithfully discharge the duties of Security Police on which I am about to enter.

Apple Street - P. O. Box 632
Street Address

Beebe, Arkansas 72012
City and State Zip

Sworn to and subscribed before me, P. Ray Ostergrant
_____, a Judge in and for the City
of Beebe, Arkansas this the 3rd day of August
in the year 1976.

Judge P Bay Ostergrant

pl
LR0007 0962308Z

RR HQ

DE LR

4 062250Z APR 77

FM LITTLE ROCK (184-23) (P)

TO DIRECTOR ROUTINE

BT

QLEAR

UNSUBS; ABE ISSAAC PIPKIN - VICTIM, SECURITY POLICE OFFICER,
BEEBE, ARKANSAS, POLICE DEPARTMENT. POLICE KILLINGS.

OO: LITTLE ROCK.

RE LITTLE ROCK TELETYPE TO BUREAU, APRIL 5, 1977.

LIAISON MAINTAINED WITH LOCAL POLICE AUTHORITIES, BEEBE,

ARK. FBI INVESTIGATION NOT BEING REQUESTED INASMUCH AS
ARKANSAS STATE POLICE ARE VIGOROUSLY INVESTIGATING CAPTIONED
CASE. FBI LABORATORY IS BEING USED AND OUT-OF-STATE LEADS,
IF DEVELOPED, WILL BE HANDLED BY FBI.

ARMED AND DANGEROUS.

BT

APR 6 6 12 PM '77

RECEIVED
FEDERAL BUREAU
OF INVESTIGATION
COMMUNICATIONS SECTION

Assoc Dir.	___
Dep AD Adm.	___
Dep AD Inv.	___
Asst. Dir.:	
Adm. Serv.	___
Ext. Affairs	___
Fin. & Pers.	___
Gen. Inv.	___
Ident.	___
Intell.	___
Local Coun.	___
Plan. & Insp.	___
Rec. Mgt.	___
S. & T. Serv.	___
Spec. Inv.	___
Training	___
Telephone Rm.	___
Director's Sec'y	___

NR10-4-77100

184-565-2

20 APR 12 1977

REC-113

UNRECORDED/REP.

53 APR 26 1977

cc - EXT.

b7C

FBI

Date 4/6/77

Transmit the following in _____

(Type in plaintext or code)

AIRTEL

Via _____

(Precedence)

TO: DIRECTOR, FBI
ATTN: FBI LABORATORY

FROM: SAC, LITTLE ROCK (184-23) (P)

SUBJECT: UNSUBS;
ABE ISAAC PIPKIN 3 VICTIM; deceased
SECURITY POLICE OFFICER;
BEEBE, ARKANSAS, POLICE DEPARTMENT;
POLICE KILLING
OO: LITTLE ROCK

Re Little Rock teletype to Bureau, dated 4/5/77.

Being forwarded under separate cover to the Laboratory are the following items:

1. Sample of victim's hair.
2. Hair samples.
3. Hair samples with blood stains.
4. A piece of fiber found in alleyway behind burglarized drug store.
5. Hair and blood samples found near scene.
6. Piece of fiber found in alleyway.

2-Bureau
1-Package (RM)
2-Little Rock
RLS/jfm
(5)

EX-106

REC-16

184-565-3

APR 9 1977

Approved _____

Special Agent in Charge

Sent _____

M Per _____

57 MAY 24 1977

O 1977-590-992

UNOFFICIAL COPY
TWO

INDEXED FILES
COPY and Specimens retained in Lab
for Lab Action and Report

N 4307

3a-MC

46

8a-8

NR 10141 TIKS

LR 184-23

7. Hair samples found near scene.
8. Cigarette butt.
9. Blood samples taken near scene of assault.
10. Telepaque container - white in color.
11. Hair found in back of pharmacy where drugs were
taken.
12. Delatesbryl container - yellow in color.
13. Blue colored bottle filled with liquid syrup.
14. Bill cap - green in color.
15. Brown envelope.
16. Five paper grocery-type brown bags.
17. Cardboard box.
18. Schlitz beer can.
19. "
20. "
21. Blood samples.
22. "
23. "
24. "

Victim, white male, DOB 9/25/05, a night security police officer employed at Beebe, Arkansas, since 8/3/76, was fatally injured by being hit on the head with a blunt instrument approximately twenty-seven times when he apparently discovered a burglary in progress at a drug store at Beebe, Arkansas. His duties included checking all downtown stores on a shift from midnight to 6:00 AM.

On the morning of 4/5/77, victim was at the Police Department at Beebe, Arkansas, and left at approximately 4 AM. At 4:30 AM he was observed by a local paper delivery boy in downtown Beebe bleeding from the head and staggering on the street. Chief of Police, Beebe, Arkansas, called and responded to where victim was staggering on street. Victim taken to police department and while being transported to local hospital died en route approximately two hours later. Blood stains on street indicate victim was assaulted in an alley behind the drug store and staggered for one or two blocks before being found. A large pool of blood was found in alley behind drug store along with victim's hat, which is being forwarded, and his glasses. Victim's gun was missing from his holster. An unknown quantity of drugs is missing from the drug store.

Autopsy by medical examiner indicated victim struck on head with possibly a tire tool and some type of possible paint elements were embedded in victim's skull.

Arkansas State Police conducted homicide investigation and have requested examinations by FBI Laboratory.

REQUEST OF FBI LABORATORY

The FBI Laboratory is requested to conduct the following examinations:

1. Ascertain if hair samples in enclosed items 2, 3, 5, 7, 11, and 13 match that of victim's hair, which is item #1. 3a
2. Determine if blood in enclosed items 3, 5, 13, 19, 21, 22, 23, and 24 is all of the same type. It is noted item 9 is sample of blood from pool of blood where victim believed initially assaulted in alley. 4b

LR 184-23

3. Examine enclosed item 8 for saliva test for blood type and ascertain if different blood type than in sample submitted.

4. Examine victim's cap, item 14, to ascertain if any paint element or anything else of value embedded in fabric. *ga*

SECTION REQUEST OF IDENTIFICATION DIVISION, LATENT FINGERPRINT

Examine enclosed items 10, 12, 13, 14, 15, 16, 17, 18, 19, and 20 for any latent fingerprints. *WPS*

Victim's clothing is forthcoming when fabric has dried to compare with enclosed items 4 and 6.

Upon completion of examinations furnish results to Little Rock Office and Arkansas State Police, Attention Investigator P. O. Box 4005, Little Rock, Arkansas 72203.

b7C

Return enclosed samples to Little Rock Office.

ARMED AND DANGEROUS.

FBI

APR 20

TRANSMIT VIA

- ☐ Teletype
☐ Facsimile
☒ Airtel

PRECEDENCE

- ☐ Immediate
☐ Priority
☐ Routine

CLASSIFICATION

- ☐ TOP SECRET
☐ SECRET
☐ CONFIDENTIAL
☐ E F T O
☐ CLEAR

Date 4/12/77

Q1-Q6

TO: DIRECTOR, FBI
ATTN: FBI LABORATORY

FROM: SAC, LITTLE ROCK (184-23) (P)

RE: UNSUBS;
ABE ISAAC PIPKIN - VICTIM,
SECURITY POLICE OFFICER,
BEEBE, ARKANSAS, POLICE DEPARTMENT;
POLICE KILLING
OO: LITTLE ROCK

Re Little Rock airtel to Bureau, 4/6/77.

Being forwarded under separate cover to the FBI Laboratory are the following items:

- Q1 25. One pair of green trousers
Q2 Belt
Q3 26. One green colored shirt
Q4 27. Thermal undershirt - white in color
Q5 28. Blue waist length jacket with fur collar
Q6 29. Tire tool

The enclosed clothing was removed from victim's body by medical examiners at the Medical Center, Little Rock, Arkansas, following victim's death. These items were made available by Arkansas State Police investigators who are investigating the homicide.

- 2 - Bureau
1 - Package (RM)
2 - Little Rock
RLS:cwb
(5)

(184-565)

EX-106 REC-60/184-565

APR 14 1977

Re previous 24 items submitted 4/6/77
(Page 2, Para 6) - Those items were not
submitted & were st. in L.R. SA [redacted]
is forwarding those items to Bureau
4/12/77
RWH

UNIFORMS REP.
TWO

Approved

Transmitted

(Number)

(Time)

Per

56 AUG 3 1977

for Lab A
and Report
ens retained in Lab

4/14

N 4398

4b-TK

8a BY
extra MC

MS

On the weekend of 4/9/77, a burglary occurred at Gwatney Chevrolet Company, Jacksonville, Arkansas, and a safe was removed from the Chevrolet Company. Jacksonville, Arkansas, is located just south of Beebe, Arkansas. The safe from this Chevrolet burglary was recovered several miles from the Chevrolet company and under the safe was a tire tool which is enclosed. Police officers investigating the burglary stated apparently the burglars involved in the Chevrolet company burglary cut themselves during the process of removing the safe inasmuch as fresh blood was around the safe. Other than fresh blood appearing on the tire tool, investigating officers felt that there was some old blood on this tire tool and inasmuch as it appeared a tire tool may have been used to kill victim in instant case, this tire tool was kept for examination.

REQUEST OF THE FBI LABORATORY

1. Examine blood stains on tire tool submitted under separate cover and ascertain blood type of what appears to be fresh blood and old blood stains on the tire tool.
2. Ascertain if blood type on this tire tool is the same as blood type from victim which is on victim's clothing submitted under separate cover.
3. Examine fur collar for any metal or paint elements that may have become detached from instrument used to beat victim.
4. Ascertain if blood type in all of victim's clothing is of the same type.

Conduct any other logical examinations or comparisons with previous 24 items submitted to FBI Laboratory by airtel dated 4/6/77.

Upon completion of examination, furnish results of examination to Arkansas State Police, Attn; Investigator P.O. Box 4005, Little Rock, Arkansas 72203.

b7C

LR 184-23

Return evidence submitted under separate cover
to Little Rock Division.

ARMED AND DANGEROUS.

memorandum

DATE 4/26/77

REPLY TO
ATTN OF

SAC, LITTLE ROCK (184-23)(P)

SUBJECT

UNSUBS;
 ABE ISSAAC PIPKIN - VICTIM, *Encl 1*
SECURITY POLICE OFFICER,
BEEBE, ARKANSAS, POLICE DEPARTMENT
POLICE KILLINGS
 OO: LITTLE ROCK

TO: DIRECTOR, FBI

Re Bureau letter to Little Rock, 4/7/77, entitled
 "ANALYSIS OF LAW ENFORCEMENT OFFICERS KILLED - 1977,
 BEEBE, ARKANSAS, POLICE DEPARTMENT, UNIFORM CRIME REPORTING."

Enclosed is a copy of questionnaire pertaining to
 victim's death at Beebe, Arkansas, which was completed by
 Chief of Police at Beebe, Arkansas.

Arkansas State Police will make available copy
 of their investigative report which will be furnished to
 Bureau when completed.

ARMED AND DANGEROUS.

REC-60 / 84-565-5

EX-101

MAY 2 1977

2 - Bureau (Enc. 1)
 2 - Little Rock
 RLS/ssc
 (4)

1 cc + enclosure detached

vcr
TH/K

b7C



Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan

OPTIONAL FORM NO 10
 (REV 7-76)
 GSA FPMR (41 CFR) 101-11.6
 5010-112

FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D C 20535

DATE **May 6, 1977**

TO **SAC, Little Rock (184-23)**

Re

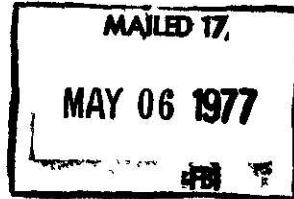
**UNSUBS;
ABE ISAAC PIPKIN - VICTIM;
SECURITY POLICE OFFICER,
BEEBE, ARKANSAS, POLICE DEPARTMENT;
POLICE KILLING**

OO: Little Rock

Invoice of Contents

*no 140m
condu 823
submitted by
me. Take on
FBI*

**Pair of shoes
Box
Glasses
Container of soil**



☐ Crypt -Trans
☐ Document
☒ P & C
☐ Radio Engineering
☐ LFPS

717828

b7C

REGISTERED
Special Instructions:
Mail Room: Show shipment date and registry number.
Shipping Room: Show shipment date, bill of lading number,
initial, invoice, return to Section checked in block, after
initialing in block, invoice to be placed in administrative file

FBI File No

**184-565-
184-5653**

PC-N4307 MC

INCOM 70M3 181

FBI/DOJ

FEDERAL BUREAU OF INVESTIGATION

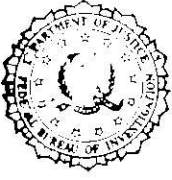
Washington, D. C. 20537

REPORT

of the

IDENTIFICATION DIVISION

LATENT FINGERPRINT SECTION



YOUR FILE NO. 184-23 (P)
 FBI FILE NO. 184-565
 LATENT CASE NO. B-46443

May 17, 1977

TO SAC, Little Rock

UNSUBS.,

RE ABE ISAAC PIPKIN - VICTIM
 SECURITY POLICE OFFICER
 BEEBE, ARKANSAS, POLICE DEPARTMENT
 POLICE KILLING

REFERENCE Airtel 4/6/77
 EXAMINATION REQUESTED BY Little Rock
 SPECIMENS

Q10, bottle and contents (item 13)
 Q12, beer can (item 14)
 Two containers (items 10 and 12)
 Envelope and pen refills (item 15)
 Five paper bags (item 16)
 Cardboard carton (item 17)
 Two beer cans (items 18 and 20)

MAY 19 1977

Three latent fingerprints and two latent palm prints
 of value for identification purposes were developed as follows:

One fingerprint and two palm prints on a
 sheet of paper attached to the paper
 bag marked E-21

One fingerprint on the paper bag marked

(Continued on next page)

Assoc. Dir. _____
 Dep. AD Adm. _____
 Dep. AD Inv. _____
 Asst. Dir. _____
 Adm. Serv. _____
 Ext. Affairs _____
 Fin. & Pers. _____
 Gen. Inv. _____
 Ident. _____
 Intell. _____
 Legal Coun. _____
 Plan. & Insp. _____
 Rec. Mgt. _____
 S. & T. Serv. _____
 Spec. Inv. _____
 Training _____

Telephone Rm. _____
 Director's Sec'y _____
 MAIL ROOM ☐ TELETYPE UNIT ☐

Assistant Director, Identification Division

FBI/DOJ

SAC, Little Rock

May 17, 1977

One fingerprint on a sheet of paper attached
to the paper bag marked E-25
Two palm prints on the inside of the end flaps
on the cardboard carton marked E-26

No latent prints of value were present or developed on the
remaining specimens.

If possible, fully and clearly recorded major case
elimination prints should be submitted for all individuals
known to have handled the paper bags, sheets of paper attached
to the bags, and the carton.

The specimens are being returned under separate
cover.

The results of the laboratory examinations will be
furnished separately.

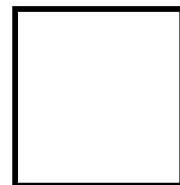
A separate report is being furnished to the Arkansas
State Police concerning the latent print examination, as
requested.

RECORDED

AM

4/20/77

FEDERAL BUREAU OF INVESTIGATION ✓
UNITED STATES DEPARTMENT OF JUSTICE
Recorded 5/6/77, 3:30 p.m. tao
Laboratory Work Sheet



b7C

To SAC, Little Rock (184-23) (P)

LATENTS

Received 5/6/77

FBI FILE NO

184-565-6

LAB NO.

PC-N4307 MC RV LY

YOUR NO.

LC #B-46443

Re UNSUBS;
ABE ISAAC PIPKIN - VICTIM;
SECURITY POLICE OFFICER,
BEEBE, ARKANSAS, POLICE DEPARTMENT;
POLICE KILLING
OO: Little Rock

Examination by



b7C

Noted By



Examination requested by Little Rock

Reference Airtel 4/6/77

Examination requested Microscopic Analyses - Chemical Analyses -
Instrumental - Fingerprint

Specimens received 4/9/77

Specimens:

Q1 Hairs (2)
Q2 Hairs (3)
Q3 Fibers (4)
Q4 Hairs and debris (5)
Q5 Debris (6)
Q6 Hairs (7)
Q7 Cigarette butt (8)
Q8 Substance from near scene (9)
Q9 Hairs (11)
X Q10 Bottle and contents (13) ✓ (E-4) (GP. M. N. 134)
Q11 Cap (14) - CLOTH - NO EXAM
X Q12 Beer can (19) ✓ (E-4) (GP. M. N. 134)

Q10, Q12 + A/S REC'D LFPS
5-6-77 [REDACTED] EXAM b7C
+ RETURN TO CONTRIBUTOR.
LAB REPORT SEP. 5-6-77

Sep Rpt. To - Colonel Douglas W. Harp
Director
Arkansas St. Police
P.O. Box 4005
Little Rock, Arkansas

ATTN

[REDACTED] 72203
Investigator b7C

And 5-17-77
[REDACTED] b7C
FBI/DOJ

(over)

- 5/9/77 $\frac{1}{2}$ (AM)

Q10 exam. viewed + pwr (GP-BP) - No lots of value present on des.

Q12 exam. viewed + pwr (GP-BP) - No lots of value present on des.

A/S items (pen refil + 2 ten cans) exam viewed + pwr (GP-BP) - No lots of value present on des.

A/S items power items sprayed (N) (2 containers, env, 5 bags + cardboard)

Q10, (power part) sprayed (N)

A/S - 2 containers + paper bags re pwr (N) (P. 11) - 3 bags photo (E-21, E-22 + E-24)

- 5/10/77 $\frac{1}{2}$ -

Q10, env (A/S) + log (A/S) re pwr (N) - A/S combined carton photo (N) (AM)

Q10 (power part), 2 containers, env, 5 bags pwr (N) - 3 bags photo (N) (E-21, E-22 + E-25)

No lots of value present on des Q10, Q12, A/S, 2 containers, env., refil + 2 cans

(Carton refil for photo (N))

Carton pwr (N) no add'l or impr'd lots des.

(see pg 2)

* Q13-Q16 Debris (21-24)

K1 Head hair sample from victim (1)

ALSO SUBMITTED:

- x "Telepaque" container (10) ✓ (E-20) (N+SN) No Lts
- x "Delates Fryl" container (12) ✓ (E-27) (N+SN) No Lts
- ~~XXXXXXXXXX~~
- x Envelope and pen refill (15) ✓ (E-6) (N+SN) (GP) (E-21) (N+SN) No Lts
- x Five paper bags (16) ✓ (E-21, E-22, E-23, E-24, E-25) (N+SN)
- x Cardboard ~~box~~ ^{carton} (17) ✓ (E-26) (N+SN)
- x Two beer cans (18, 20) ✓ (E-2) (N+SN) (GP) (E-21) (N+SN) No Lts

- 5/11/77 -

1 lat fprint (L+SN) + 2 lat PP: der. (N+SN) on sheet of paper attached to paper bag marked E-21

1 lat fprint der. (N) on paper bag marked E-24

1 lat. fprint der. (SN) on sheet of paper attached to paper bag marked E-25

2 lat PP: der (N) on inside of end flaps on cardboard carton marked E-26

No lat prints of value present on der. rem. spec.

(over)

(in roomed where upper case mean)
(writing & other notations)

Examination Completed, 4PM 5/11/77 Dictated 5/11/77
Date Time Date

- 5/11/77 to -

Reg. elms not be sent for persons known to have had acc. to
sheets of paper, bags & cartons, if poss.

FBI

Date. 4/6/77

Transmit the following in _____
(Type in plaintext or code)Via AIRTEL _____
(Precedence)TO: DIRECTOR, FBI
ATTN: FBI LABORATORY

FROM: SAC, LITTLE ROCK (184-23) (P)

SUBJECT: UNSUBS;
ABE ISAAC PIPKIN - VICTIM,
SECURITY POLICE OFFICER,
BEEBE, ARKANSAS, POLICE DEPARTMENT;
POLICE KILLING
OO: LITTLE ROCK

Re Little Rock teletype to Bureau, dated 4/5/77.

Being forwarded under separate cover to the Laboratory
are the following items:

1. Sample of victim's hair.
2. Hair samples.
3. Hair samples with blood stains.
4. A piece of fiber found in alleyway behind
burglarized drug store.
5. Hair and blood samples found near scene.
6. Piece of fiber found in alleyway.

Bureau
1-Package (RM)
2-Little Rock
RLS/jfm
(5)

b7C

b7C

Approved _____ Sent _____ M Per _____
Special Agent in Charge

FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D C 20535

DATE **May 17, 1977**

Re

TO **SAC, Little Rock
(184-23 (P))**

**UNSUBS.;
ABE ISAAC PIPKIN - VICTIM
SECURITY POLICE OFFICER
BEEBE, ARKANSAS, POLICE DEPARTMENT
POLICE KILLING**

MAILED 9

MAY 19 1977

FBI

Invoice of Contents

**Q10, bottle and contents (item 13)
Q12, beer can (item 19)
Two containers (items 10 and 12)
Envelope and pen refill (item 15)
Five paper bags (item 16)
Cardboard carton (item 17)
Two beer cans (item 18 and 20)**

115361

☐ Crypt - Trans
☐ Document
☐ P & C
☐ Radio Engineering
☐ LFPS

Special Instructions

Mail Room Show shipment date and registry number
Shipping Room Show shipment date, bill of lading number,
initial invoice, return to Section checked in block, after
initialing in block, invoice to be placed in administrative file

FBI File No

184-565

5-17-77

LC B-46443

55 MAY 20 1977
REGISTERED

PKg'd By

5/19/77

b7C

FBI/DOJ

FEDERAL BUREAU OF INVESTIGATION

Washington, D C 20537



REPORT

of the

IDENTIFICATION DIVISION

LATENT FINGERPRINT SECTION

YOUR FILE NO

FBI FILE NO

184-565

LATENT CASE NO

B-46443

LOCAL & STATE May 17, 1977

TO Colonel Douglas W. Harp
 Director
 Arkansas State Police
 Post Office Box 4005
 Little Rock, Arkansas 72203

Attention:

Investigator

b7C

RE

UNKNOWN SUBJECT(S);
 ABE ISAAC PIPKIN - VICTIM
 SECURITY POLICE OFFICER
 BEEBE, ARKANSAS, POLICE DEPARTMENT
 POLICE KILLING

REFERENCE

EXAMINATION REQUESTED BY

SPECIMENS

FBI, Little Rock communication dated

April 6, 1977 - 3

FBI, Little Rock

Q10, bottle and contents

Q12, beer can

Two containers

Envelope and pen refill

Five paper bags

Cardboard carton

Two beer cans

REC-117

184-565-7

Three latent fingerprints and two latent palm prints
 of value for identification purposes were developed as follows:

Assoc Dir _____

Dep AD Adm _____

Dep AD Inv _____

Asst Dir _____

Adm Serv _____

Ext Affairs _____

Fin & Pers _____

Gen Inv _____

Ident _____

Intell _____

Legal Coun _____

Plan & Insp _____

Rec Mgt _____

S & T Serv _____

Spec. Inv _____

Training _____

Telephone Rm. _____

Director's Sec'y _____

One fingerprint and two palm prints on a sheet
 of paper attached to the paper bag marked E-21
 One fingerprint on the paper bag marked E-24
 One fingerprint on a sheet of paper attached to
 the paper bag marked E-25

(Continued on next page)

Assistant Director, Identification Division

THIS REPORT IS FURNISHED FOR OFFICIAL USE ONLY

TELETYPE UNIT ☐

FBI/DOJ

MAILED 17

MAY 18 1977

FBI

TMG:dlr

(3)

b211

b211

b211

b211

b211

b211

b211

b211

b211

b211

Colonel Douglas W. Harp

May 17 , 1977

Two palm prints on the inside of the end
flaps on the cardboard carton marked E-26

No latent prints of value were present or developed on the
remaining specimens.

Photographs of the latent prints have been prepared
for our files and will be available for comparison purposes.

If possible, fully and clearly recorded inked finger-
and palm prints of all individuals known to have handled these
specimens should be submitted for elimination purposes.

The specimens are being returned to our Little Rock
Division (their file #184-23).

The results of the laboratory examinations will be
furnished separately.

FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D C 20535

DATE 6/13/77

Re

TO SAC, Little Rock (184-23)

UNKNOWN SUBJECTS;
ABE ISAAC PIPKIN - VICTIM;
SECURITY POLICE OFFICER
BEEBE, ARKANSAS, POLICE DEPARTMENT
POLICE KILLING

Invoice of Contents

Q1-Q9, Q11, Q13-Q16

K1
MAILED 4

JUN 16 1977

REGISTERED MAIL

718783

- ☐ Crypt -Trans
☐ Document
☒ P & C
☐ Radio Engineering
☐ LFPS

Special Instructions

Mail Room Show shipment date and registry number.
Shipping Room Show shipment date, bill of lading number,
initial invoice, return to Section checked in block, after
initialing in block, invoice to be placed in administrative file

FBI File No 184-565

6/14/77

PC-N4307 MC RV LY

70 JUN 17 1977

sent 6/16/77

FBI/DOJ



**FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D. C. 20535**

b7C

To **SAC, Little Rock (184-23)**

June 15, 1977

From **Director, FBI**

FBI FILE NO. **184-565**

LAB NO. **PC-N4307 MC RV LY**

**UNKNOWN SUBJECTS;
Re ABE ISAAC PIPKIN - VICTIM;
SECURITY POLICE OFFICER,
BEEBE, ARKANSAS, POLICE DEPARTMENT;
POLICE KILLING
OO: Little Rock**

Examination requested by

Little Rock

Reference

Airtel 4/6/77

Examination requested

**Microscopic Analyses - Chemical Analyses -
Instrumental - Fingerprint**

Remarks

**You are being advised of the disposition of Q10,
Q12 and the ALSO SUBMITTED items by a Latent Fingerprint
Section report.**

**Specimens Q1 through Q9, Q11, Q13 through Q16
and K1 are being returned under separate cover by registered
mail.**

Enclosures (2) (2 Lab report)

**- Arkansas State Police (attachment only)
Post Office Box 4005
Little Rock, Arkansas 72203**

Attention:

Investigator

b7C

**Paragraph regarding Bureau policy has been added to the copies
for the Arkansas State Police, Little Rock, Arkansas**

**FJW:am
(4)**

ADMINISTRATIVE PAGE

**DO NOT INCLUDE ADMINISTRATIVE
PAGE(S) INFORMATION IN
INVESTIGATIVE REPORT**

MAIL ROOM

TELETYPE UNIT

FBI/DOJ

MAILED 7

JUN 16 1977

FBI

70 JUL 12 1977

REPORT
of the

1

3931A

b7C

FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D. C. 20535

To SAC, Little Rock (184-23)

June 13, 1977

FBI FILE NO.

184-565

LAB. NO.

PC-N4307 MC RV LY

Re

UNKNOWN SUBJECTS;
ABE ISAAC PIPKIN - VICTIM;
SECURITY POLICE OFFICER,
BEEBE, ARKANSAS, POLICE DEPARTMENT;
POLICE KILLING

Specimens received

4/9/77

Specimens:

Q1 Hairs (2)
Q2 Hairs (3)
Q3 Fibers (4)
Q4 Hairs and debris (5)
Q5 Fibers and debris (6)
Q6 Hairs (7)
Q7 Cigarette butt (8)
Q8 Substance from near scene (9)
Q9 Hairs (11)
Q10 Bottle and contents (13)
Q11 Cap (14)
Q12 Beer can (19)
Q13-Q16 Debris (21-24)
K1 Head hair sample from victim (1)

Page 1

(Over)

FJW:am (6)*

ALSO SUBMITTED:

"Telepaque" container (10)
"Delatesbryl" container (12)
Envelope and pen refill (15)
Five paper bags (16)
Cardboard box (17)
Two beer cans (18,20)

Result of examination:

Numerous brown to white head hairs of Caucasian origin that have been forcibly removed from the scalp were found in and on Q1, Q2, Q4, Q6 and Q10. These hairs exhibit the same microscopic characteristics as hairs present in the K1 hair sample and, accordingly, probably originated from the victim.

It should be noted that hair comparisons do not constitute a basis for positive personal identification.

Specimen Q9 contains a head hair (with root) that measures approximately 10 inches in length and a head hair fragment (no root) that measures approximately 2 inches in length. Both of these hairs exhibit Caucasian characteristics and both hairs exhibit the same individual microscopic characteristics. Therefore, it was concluded that both of these hairs probably originated from the same source. These hairs are dissimilar to the hairs present in K1 and did not originate from the victim.

The textile fibers in Q3 and Q5 are triacetate fibers that microscopically appear to have originated from a common source. These fibers were compared with the clothing from the victim (FBI Laboratory submission PC-N4398 TK LY MC) and it was determined that these triacetate fibers did not originate from the victim's clothing.

Group "A" human blood was identified on specimens Q4, Q8, Q13 and Q16. Grouping tests conducted on the human blood identified on specimen Q2 were inconclusive. Human blood, too limited in amount for grouping purposes, was identified on specimens Q10, Q14 and Q15. No blood was found on specimen Q12.

No saliva was found on specimen Q7.

No foreign paint was present on the Q11 cap or in the debris obtained by shaking and scraping Q11.

Trans pg.

are being
You ~~will be~~ advised of the
disposition of Q10, Q12 and the
also Submitted items by a
Latent Fingerprint Section
report.

Specimens Q1-Q9, Q11 and
K1 are being returned under
separate cover by registered
mail.

Results:

Numerous brown to white head hairs of Caucasian origin that have been forcibly removed from the scalp were found in and on Q1, Q2, Q4, Q6 & Q10. These hairs exhibit the same microscopic characteristics as hairs present in the K1 hair sample and, accordingly, probably originated from the victim.

It should be noted that hair comparisons do not constitute a basis for positive personal identification.

Specimen Q9 contains a head hair (with root) that measures approximately 10 inches in length and a head hair fragment (no root) that measures approximately 2 inches in length. Both of these hairs exhibit Caucasian characteristics and both hairs exhibit the same individual microscopic characteristics. Therefore,

It was concluded that

both of these hairs probably originated from the same source. These hairs are dissimilar to the hairs present in K1 and did not originate from the victim.

The textile fibers in Q3 and Q5 are Triacetate fibers that microscopically appear to have originated from a common source. These fibers were compared with the clothing from the victim (FBI Laboratory submission PC-N4398 TK LY MC) and it was determined that these Triacetate fibers did not originate from the victim's clothing.

Place dictation here

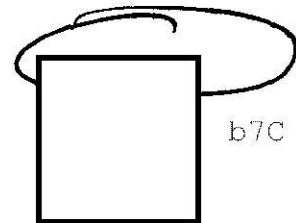
b7C

Place dictation here

RECORDED
AM
4/20/77

FEDERAL BUREAU OF INVESTIGATION
UNITED STATES DEPARTMENT OF JUSTICE

Laboratory Work Sheet



b7C

To: SAC, Little Rock (184-23)

LATENTS

UNSUBS;
ABE ISAAC PIPKIN - VICTIM;
SECURITY POLICE OFFICER,
Re: BEEBE, ARKANSAS, POLICE DEPARTMENT;
POLICE KILLING
OO: Little Rock

FBI FILE NO.

184-565-8

LAB. NO.

PC-N4307 MC RV LY

YOUR NO.

Examination by:

Q1, Q4, Q7, Q8, Q10, Q12 = Q16 to RV 4/29/77 set 5/6
Q11 to LY 4/29/77 set 5/19

* see below

13 slides

Examination requested by: Little Rock

Reference: Airtel 4/6/77

Examination requested: Microscopic Analyses - Chemical Analyses -
Instrumental - Fingerprint

Specimens received.

4/9/77

Specimens:

- Q1 ✓ Hairs (2)
- Q2 ✓ Hairs (3)
- Q3 Fibers (4)
- Q4 ✓ Hairs and debris (5) ?
- Q5 *Friar* debris (6)
- Q6 ✓ Hairs (7)
- Q7 Cigarette butt (8)
- Q8 Substance from near scene (9)
- Q9 Hairs (11)
- Q10 ✓ Bottle and contents (13) ?
- Q11 Cap (14)
- Q12 Beer can (19) ?

b7C

Q10, Q12 + A/S RECD LFPS
EXAM +
RETURN TO CONTRIBUTOR
5-6-77

[Signature]

*
2 copies of rpt to
Arkansas State Police

Attn:



Investigator
P.O. Box 4005
Little Rock, Ark 72203
FBI/DOJ

b7C

Q13-Q16 Debris (21-24)

K1 Head hair sample from victim (1)

ALSO SUBMITTED:

"Telepaque" container (10)

"Delatesbryl" container (12)


Envelope and pen refill (15)

Five paper bags (16)

Cardboard box (17)

Two beer cans (18,20)

PC-N4307

Q1 Hairs from behind pharmacy, all H mounted 2 sl

Q2 Hairs from alley behind pharmacy, no H mounted
1 sl

Q3 Fingers from behind pharmacy, all F mounted 1 sl
TRIACETATE FIBERS did not originate from Q1-Q5 (PC-N4398)
clothing

Q4 Hairs & debris, no H mounted 1 sl

Q5 Fingers & debris, no F mounted 1 sl
F - TRIACETATE did not originate from Q1-Q5 (PC-N4398)
clothing

Q6 Hairs from behind pharmacy, no mounted 2 sl

Q7-Q8 NO EXAM

Q9 Two H from behind pharmacy, 1 sl

Q10 Bottle, joint size of "DEMEXOL" removed, slightly
stained, numerous H removed from cap area

Q11-Q12 NO EXAM

K1
2nd
10 Be to wh. HH (clippings) CO $\frac{1}{4}$ " less
Cuticle var. med. thin to med. thick
& clear to sl. tan. scale prot sl.
Cuticle fluted sl & ind. Pig dist
med to none & T.C. Pig size
av & sl oval Chaining short
Medulla abs as frag.

Q1
2nd
10 ^{num} Be to wh HH's CO fr. 3" ↓ same K1

Q2
2nd
10 Num Be to wh HH's CO fr. 1" ↓ same K1

Q4
2nd
10 Num Be to wh HH's CO fr. 2" ↓ same K1

Q6
2nd
10 Num Be to wh HH's CO fr. 3" ↓ same K1

Q9 Num HH's CO chem treated bleached
this K1(2) root - 10" frag 2"

Q10
2nd
10 Num Be to wh HH's CO fr. 3" ↓ same K1

Q3 Unicef's del.

Q5 " " " same Q3

disso to victim's clothing (see additional notes) same char. prob orig from source

Q17 *Just*
RECORDED
4/22/77
tkl

FEDERAL BUREAU OF INVESTIGATION
UNITED STATES DEPARTMENT OF JUSTICE

Laboratory Work Sheet

To: SAC, Little Rock (184-23)

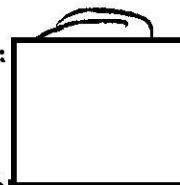
FBI FILE NO. 184-565-8

LAB. NO. PC-N4398 TK LY M

YOUR NO.

Re: UNSUBS;
ABE ISAAC PIPKIN - VICTIM,
SECURITY POLICE OFFICER,
BEEBE, ARKANSAS, POLICE ~~ERR~~
DEPARTMENT; POLICE KILLING

Examination by:



b7C

OO: Little Rock

Examination requested by: Little Rock ~~XXXXXXXXXX~~

Reference: Airtel 4/12/77

Examination requested: Chemical Analyses - Instrumental - *Microscopic Analysis*

Specimens received: 4/14/77

Q1 Trousers
Q2 Belt
Q3 Shirt
Q4 Thermal undershirt
Q5 Jacket
Q6 Tire tool

5/11/77

PC-N4398

Q1 Drab green trousers, stained

Q2 Brown leather belt

Q3 Drab green shirt, long sleeves, stained

Q4 White thermal undershirt, stained

COMPOSITION: POLYESTER, COTTON

Q5 Navy blue nylon jacket, fuzzy blue collar

Q6 NO EXAM

NOTE: Q3, Q5 files (PC-N4307) could not be associated with Q1-Q5 clothing (PC-N4398)

TESTS		
022 chem.	SPEC	EXAM
	10	15

PC-N4307 MC RV LY

b7C

[REDACTED] DICTATION:

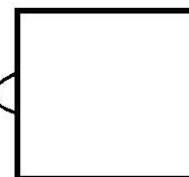
GROUP "A" HUMAN BLOOD WAS IDENTIFIED ON SPECIMENS Q4, Q8, Q13 AND Q16. GROUPING TESTS CONDUCTED ON THE HUMAN BLOOD IDENTIFIED ON SPECIMEN Q2 WERE INCONCLUSIVE. HUMAN BLOOD, TOO LIMITED IN AMOUNT FOR GROUPING PURPOSES, WAS IDENTIFIED ON SPECIMENS Q10, Q14 AND Q15. NO BLOOD WAS FOUND ON SPECIMEN Q12.

NO SALIVA WAS FOUND ON SPECIMEN Q7.

RECORDED
AM
4/20/77

FEDERAL BUREAU OF INVESTIGATION
UNITED STATES DEPARTMENT OF JUSTICE

Laboratory Work Sheet



b7C

To SAC, Little Rock (184-23)

LATENTS

FBI FILE NO.

184-565-8

LAB NO.

PC-N4307 MC RV LY

YOUR NO

UNSUBS;
ABE ISAAC PIPLIN - VICTIM;
SECURITY POLICE OFFICER,
Re BEEBE, ARKANSAS, POLICE DEPARTMENT;
POLICE KILLING
OO: Little Rock

Examination by

Q2, Q4, Q7, Q8, Q10, Q12-Q16 from MC,
4/29/77

Examination requested by

Little Rock

RETURNED 5/6/77

Reference

Airtel 4/6/77

Examination requested

Microscopic Analyses - Chemical Analyses -
Instrumental - Fingerprint

Specimens received

4/9/77

Specimens:

- Q1 Hairs (2)
- Q2 Hairs (3)
- Q3 Fibers (4)
- Q4 Hairs and debris (5)
- Q5 Debris (6)
- Q6 Hairs (7)
- Q7 Cigarette butt (8)
- Q8 Substance from near scene (9)
- Q9 Hairs (11)
- Q10 Bottle and contents (13)
- Q11 Cap (14)
- Q12 Beer can (19)

✓Q13-Q16 Debris (21-24)

K1 Head hair sample from victim (1)

ALSO SUBMITTED:

"telepaque" container (10)

"Delatesbryl" container (12)

~~Enelope~~

Enelope and pen refil (15)

Five paper bags (16)

Cardboard box (17)

Two beer cans (18,20)

BLOOD EXAMINATION

PC- N 4307

Contributor

SAC LITTLE ROCK ARK.

Date

5-3-77

Buffer -
Hemol +
Falt -

Specimen	phenol power	Hemo.	Anti-H	Groupings		Crust	Remarks
				Elut.	Inh.		
Q2 - Hairs	B +	+	NC	C	/	A B O	Scraping from matted hair Q2 is hair with unknown substance
Q4 - Hair and debris	B +	+	NC	C	/	A B O	Scraping from hair Q4 are hairs and debris. Scraping taken for typing
Q8 - subd from sweater	B +	+	NC	C	/	A B O	scraping from piece of paper Q8 is unknown substance dried on card.
Q10 - Bottle and container	B +	+	NC	Q	N	S	Scraping from top of bottle Q10 is a bottle of "Dementol" with some obvious stains instructions checked around bottle
Q12 - Beer Can	-	-	-	-	-	-	nothing of value noted Q12 is a "Schlitz" beer can One to latent impressions can was not supplied only obvious stains were checked
Q13 - Debris	B +	+	NC	C	/	A B O	Scrapings from container Q13 is unknown subst. grouping attempted

Contributor

Date _____

5-4-77

Buffer -
Human +
Rabbit -

CASE # PCN 4307

ELUTION

BLOOD GROUPING

DATE 5-4-77

SPECIMEN	SERUM	CELLS	STAIN	CONTROL	"H" GROUP	REMARKS
SERUM CONTROL	B	A	/	/		
	A	B	/	/		
KNOWN O	B	A	—	/	—	
	A	B	—	/		
KNOWN A	B	A	+	/	—	
	A	B	—	/		
KNOWN B	B	A	—	/	—	
	A	B	+	/		
KNOWN AB	B	A	+	/	—	
	A	B	+	/		
KNOWN A ₂	B	A	+	/	—	
	A	B	—	/		
2-1 NC	B	A	—	/	—	A — B — weak color O —
	A	B	—	/		
4-1wc	B	A	+	—	—	A — B + weak color O —
	A	B	—	—		
8-1wc	B	A	+	—	—	A — B + weak color O —
	A	B	—	—		
13-1wc	B	A	+	—	—	A — B + weak color O —
	A	B	—	—		
16-1wc	B	A	+	+	—	A — B + fair color O —
	A	B	—	—		
	B	A				
	A	B				
	B	A				
	A	B				
	B	A				
	A	B				

Known
Reagent
Blank -

Contributor

SAC LITTLE ROCK

Date _____

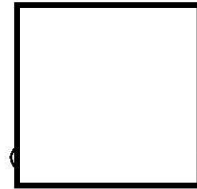
5-4-77

[illegible]

**RECORDED
AM
4/20/77**

**FEDERAL BUREAU OF INVESTIGATION
UNITED STATES DEPARTMENT OF JUSTICE**

Laboratory Work Sheet



b7C

To **SAC, Little Rock (184-23)**

LATENTS

Re **UNSUBS;
ABE ISAAC PIPLIN - VICTIM;
SECURITY POLICE OFFICER,
BEEBE, ARKANSAS, POLICE DEPARTMENT,
POLICE KILLING
OO: Little Rock**

FBI FILE NO

184-6

LAB NO.

PC-N4307 MC RV LY

YOUR NO

Examination by

Examination requested by

Little Rock

Reference

Airtel 4/6/77

Examination requested

**Microscopic Analyses - Chemical Analyses -
Instrumental - Fingerprint**

Specimens received

4/9/77

Specimens:

Q1 Hairs (2) *Antaly*
Q2 Hairs (3) *Next page*
Q3 Fibers (4)
Q4 Hairs and debris (5)
Q5 Debris (6)
Q6 Hairs (7)
Q7 Cigarette butt (8)
Q8 Substance from near scene (9)
Q9 Hairs (11)
Q10 Bottle and contents (13)
Q11 Cap (14) -
Q12 Beer can (19)

*From
Q11*



b7C

4/29/77

*Note Q11 Cap - OD
green 67/8-ry
Vg solid
Note red litty on
it to red by more
Deland M. H. - has
Pleat in duty*

Q13-Q16 Debris (21-24)

K1 Head hair sample from victim (1)

ALSO SUBMITTED:

"telepaque" container (10)

"Delatesbryl" container (12)

~~XXXXXX~~

Envelope and pen refill (15)

Five paper bags (16)

Cardboard box (17)

Two beer cans (18,20)

Dictation : No foreign paint was present on the Q11 cap or
in the debris obtained by shaking and scraping Q11

ECJ
PR

EVIDENCE
FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D. C.

RECEIVED
APR 13 9 52 AM '77
SCIENTIFIC
ANALYSIS

REC'D
FED. LABORATORY
APR 9 4 02 PM '77

184-565-9
CHANGED TO
88-76317

OCT 18 1977

KJ / DMH

C

b7C



1 -



**FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D. C. 20535**

To SAC, Little Rock (184-23)

July 1, 1977

From Director, FBI

FBI FILE NO 184-565

LAB NO

PC-N4307 MC RV LY
PC-N4398 RV LY MC

Re UNKNOWN SUBJECT;
ABE ISAAC PIPKIN - VICTIM;
SECURITY POLICE OFFICER,
BEEBE, ARKANSAS, POLICE
DEPARTMENT; POLICE KILLING

OO: Little Rock

Examination requested by

Little Rock

Reference

Airtel 4/12/77

Examination requested

Chemical Analyses - Instrumental -
Microscopic Analyses

Remarks

This report supplements a Laboratory report to you dated, June 15, 1977, and completes the requested examinations. Please refer to that report for a detailed listing of the previously submitted items.

The submitted items are being returned to you under separate cover by registered mail.

Enclosures (2) (2 Lab report)

Arkansas State Police (attachments only)
Post Office Box 4005
Little Rock, Arkansas 72203

Attention:

Investigator

REC-84



b7C

AUG 1 1977

DO NOT INCLUDE ADMINISTRATIVE
PAGE (S) INFORMATION IN
INVESTIGATIVE REPORT

ADMINISTRATIVE PAGE

70 AUG 9 1977

TELETYPE UNIT

**REPORT
of the****FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D. C. 20535**1 -

b7C

To **SAC, Little Rock (184-23)****July 1, 1977**

FBI FILE NO.

184-565-1C

LAB. NO.

**PC-N4307 MC RV LY
PC-N4398 RV LY MC**

Re **UNKNOWN SUBJECT;
ABE ISAAC PIPKIN - VICTIM;
SECURITY POLICE OFFICER,
BEEBE, ARKANSAS, POLICE
DEPARTMENT; POLICE KILLING**

Specimens received **4/14/77**

Q17	Trousers
Q18	Belt
Q19	Shirt
Q20	Thermal undershirt
Q21	Jacket
Q22	Tire tool

Result of examination:

Group "A" human blood was identified on specimens Q17 and Q19 through Q21. Grouping tests conducted on human blood identified on Q22 were inconclusive. Blood, too limited in amount for further characterization, was identified on Q18.

Specimen Q21 and the debris obtained by shaking and scraping this item were examined. The Q21 debris contained a few small paint particles composed essentially of a dark green wrinkle finish top coat over a black primer. These paint particles were different from foreign gray paint on the Q22 tire tool.

Page 1

(over)

CSR:tk1 (4)

The specific source of these Q21 paint particles is not known to the Laboratory: however, this type of finish is widely used on instruments, appliances, business machines, and filing cabinets.

These paint particles are suitable for comparison purposes.

FEDERAL BUREAU OF INVESTIGATION
UNITED STATES DEPARTMENT OF JUSTICE

Laboratory Work Sheet

To: SAC, Little Rock (184-23)

FBI FILE NO. 184-565-10

LAB NO. PC-N4398 ~~XX~~ LY *me*

YOUR NO.

Re UNSUBS;
ABE ISAAC PIPKIN - VICTIMX,
SECURITY POLICE OFFICER,
BEEBE, ARKANSAS, POLICE ~~MRK~~
DEPARTMENT; POLICE KILLING

Examination by:

b7C

00: Little Rock

Examination requested by

Little Rock 85 to 4/27/77 } returned 5/31/77
86 to 4/27/77 }

Reference

Airtel 4/12/77 Q1-Q4, Q6 to me 5/9/77
Htd 5/25/77

Examination requested:

Chemical Analyses - Instrumental - *Microscopic Analyses*

Specimens received:

4/14/77

-Q1 Trousers -
- Q2 Belt
- Q3 Shirt
-Q4 Thermal undershirt
Q5 Jacket
-Q6 Tire tool

(2) ARKANSAS STATE POLICE

ATTN:

b7C

Investigator

P.O. Box 4005

P.O. Box 4003
Little Rock, Arkansas 72203

12.2.80

V.C. OTHER REQUESTED TESTS ARE CONTINUING. YOU WILL
BE ADVISED OF THE RESULTS OF THOSE EXAMS AND THE
Disposition of the submitted items all being returned to you
under separate cover by registered mail.
DISPOSITION OF THE SUBMITTED ITEMS BY A
SEPARATE REPORT
V.C.

Group "A" human blood was identified on
specimens Q1, and Q3-Q5. Grouping tests conducted on
human blood identified on Q6 were inconclusive. Blood,
too limited in amount for further characterization, was
identified on Q2.

b7C

V.C.
you will be advised of the results of the microscopic
analysis by the laboratory report number PC-A4307 [redacted] b7C

BuFILE #184-565-10

LAB # PCN 4398 TK

CASE RECEIVED: 4/14/77

DATE: 4/18/77

VIA: RM # 11496

FROM: SAC Little Rock

CONDITION: Sealed

BLOOD EXAMINATION

AH #39

RA -

HA +

Bul -

PC- 4398

Contributor

SAC Little Rock

Date

6.9.77

Specimen	phen. Bsm	Hemo.	Anti-H	Groupings		Crust	Remarks
				Elut.	Inh.		
Q1 Trousers 1B	+	+	$\frac{1}{SU} +$	$\frac{1}{SU} \oplus$ "A"	-	A ₁ - B ₁ - A ₂ - B ₂ - PB	back of left leg at cuff
2B	+	+	$\frac{2}{SU} +$	$\frac{2}{WC} \oplus$ "Inc"	-	A ₁ - B ₁ - A ₂ - B ₂ - PB	Knee area of left leg - mixed w/ pile
3B	+	+	$\frac{3}{SU} +$	$\frac{3}{SU} \oplus$ "Inc"	-	A ₁ - B ₁ - A ₂ - B ₂ - PB	front of left leg
4B	+	+	$\frac{4}{SU} +$	$\frac{4}{SU} \oplus$ "A"	-	A ₁ - B ₁ - A ₂ - B ₂ - PB	inside pocket
5B	+	+	$\frac{5}{SU} +$	$\frac{5}{SU} \oplus$ "Inc"	-	A ₁ - B ₁ - A ₂ - B ₂ - PB	inside pocket
6B	+	+	$\frac{6}{SU} +$	$\frac{6}{SU} \oplus$ "Inc"	-	A ₁ - B ₁ - A ₂ - B ₂ - PB	inside pocket
7B	+	+	$\frac{7}{SU} +$	$\frac{7}{SU} \oplus$ "A"	-	A ₁ - B ₁ - A ₂ - B ₂ - PB	along zipper
8B	+	+	$\frac{8}{SU} +$	$\frac{8}{SU} \oplus$ "Inc"	-	A ₁ - B ₁ - A ₂ - B ₂ - PB	inside on tag
9B	+	+	$\frac{9}{SU} +$	$\frac{9}{SU} \oplus$ "Inc"	-	A ₁ - B ₁ - A ₂ - B ₂ - PB	left side near pocket
10B	+	+	$\frac{10}{SU} +$	$\frac{10}{SU} \oplus$ "Inc"	-	A ₁ - B ₁ - A ₂ - B ₂ - PB	mid back of pants
11B	+	+	$\frac{11}{SU} +$	$\frac{11}{SU} \oplus$ "Inc"	-	A ₁ - B ₁ - A ₂ - B ₂ - PB	back of left leg
12B	+	+	$\frac{12}{WC} +$	$\frac{12}{WC} \oplus$ "Inc"	-	A ₁ - B ₁ - A ₂ - B ₂ - PB	bottom of right leg - control inside hem
13B	+	+	$\frac{13}{SU} +$	$\frac{13}{SU} \oplus$ "Inc"	-	A ₁ - B ₁ - A ₂ - B ₂ - PB	right side
14B	+	+	$\frac{14}{SU} +$	$\frac{14}{SU} \oplus$ "Inc"	-	A ₁ - B ₁ - A ₂ - B ₂ - PB	along edge of right front pocket
15B	+	+	$\frac{15}{SU} +$	$\frac{15}{SU} \oplus$ "Inc"	-	A ₁ - B ₁ - A ₂ - B ₂ - PB	front of right leg
16B	+	+	$\frac{16}{SU} +$	$\frac{16}{SU} \oplus$ "Inc"	-	A ₁ - B ₁ - A ₂ - B ₂ - PB	along zipper
Note that no controls could be located for any except the 12B cuttings, and that the upper back, both inside & outside are smeared w/ what appears & smells like dried fecal matter.							
Partially consumed package of "CERTS" breath mints found in left front pocket							

BLOOD EXAMINATION

PC- N 4398

Contributor

SAC Little Rock

Date

6.9.77

Specimen	phen Donr.	Hemo.	Anti-H	Groupings		Crust	Remarks
				Elut.	Inh.		
Q2 Belt	+	+	QNS				at end of belt - away from buckle
whole belt gives + phenol, but end of belt was only place blood was actually located.							
Q3 shirt	No controls could be located on shirt						
1B	+	+	$\frac{1}{SU} +$	$\frac{1}{SU} \oplus$	-	$\begin{matrix} A \\ B \\ O \\ A_2 \end{matrix} \begin{matrix} + \\ - \\ - \\ - \end{matrix}$ GB	left front of shirt
2B	+	+	$\frac{2}{SU} +$	$\frac{2}{SU} \oplus$	-	$\begin{matrix} A \\ B \\ O \\ A_2 \end{matrix} \begin{matrix} + \\ - \\ - \\ - \end{matrix}$ PB	left cuff
3B	+	+	$\frac{3}{SU} +$	$\frac{3}{SU} \oplus$	-	$\begin{matrix} A \\ B \\ O \\ A_2 \end{matrix} \begin{matrix} + \\ - \\ - \\ - \end{matrix}$ GB	right front in pocket
4B	+	+	$\frac{4}{SU} +$	$\frac{4}{SU} \oplus$	-	$\begin{matrix} A \\ B \\ O \\ A_2 \end{matrix} \begin{matrix} + \\ - \\ - \\ - \end{matrix}$ GB	right side
5B	+	+	$\frac{5}{SU} +$	$\frac{5}{SU} \oplus$	-	$\begin{matrix} A \\ B \\ O \\ A_2 \end{matrix} \begin{matrix} + \\ - \\ - \\ - \end{matrix}$ GB	inside right cuff
6B	+	+	$\frac{6}{SU} +$	$\frac{6}{SU} \oplus$	-	$\begin{matrix} A \\ B \\ O \\ A_2 \end{matrix} \begin{matrix} + \\ - \\ - \\ - \end{matrix}$ GB	middle lower back
Q4 Thermal under- shirt							
1B	+	+	$\frac{1}{SU} +$	$\frac{1}{SU} \oplus$	-	$\begin{matrix} A \\ B \\ O \\ A_2 \end{matrix} \begin{matrix} + \\ - \\ - \\ - \end{matrix}$ PB	front
2B	+	+	$\frac{2}{SU} +$	$\frac{2}{SU} \oplus$	-	$\begin{matrix} A \\ B \\ O \\ A_2 \end{matrix} \begin{matrix} + \\ - \\ - \\ - \end{matrix}$ PB	front
3B	+	+	$\frac{3}{SU} +$	$\frac{3}{SU} \oplus$	-	$\begin{matrix} A \\ B \\ O \\ A_2 \end{matrix} \begin{matrix} + \\ - \\ - \\ - \end{matrix}$ PB	front
4B	+	+	$\frac{4}{SU} +$	$\frac{4}{SU} \oplus$	-	$\begin{matrix} A \\ B \\ O \\ A_2 \end{matrix} \begin{matrix} + \\ - \\ - \\ - \end{matrix}$ PB	left cuff
5B	+	+	$\frac{5}{SU} +$	$\frac{5}{SU} \oplus$	-	$\begin{matrix} A \\ B \\ O \\ A_2 \end{matrix} \begin{matrix} + \\ - \\ - \\ - \end{matrix}$ GB	back
6B	+	+	$\frac{6}{SU} +$	$\frac{6}{SU} \oplus$	-	$\begin{matrix} A \\ B \\ O \\ A_2 \end{matrix} \begin{matrix} + \\ - \\ - \\ - \end{matrix}$ PB	front
7B	+	+	$\frac{7}{SU} +$	$\frac{7}{SU} \oplus$	-	$\begin{matrix} A \\ B \\ O \\ A_2 \end{matrix} \begin{matrix} + \\ - \\ - \\ - \end{matrix}$ PB	right cuff
It was not possible to locate a control on Q4.							

CASE # PC-N 4398
SAC Little Rock*Tube elu*
BLOOD GROUPINGDATE 6.13.77

SPECIMEN	SERUM	CELLS	STAIN	CONTROL	GROUP	REMARKS
SERUM CONTROL	B	A	N/A			
	A	B				
KNOWN O	B	A	—		+	
	A	B	—			
KNOWN A	B	A	+		—	
	A	B	—			
KNOWN B	B	A	—		—	
	A	B	+			
KNOWN AB	B	A	+		—	
	A	B	+			
KNOWN A ₂	B	A	+		+	
	A	B	—			
Q1 1B	B	A	+		—	"A"
	A	B	—			
Q1 2B	B	A	+		—	"A"
	A	B	—			
Q1 3B	B	A	+		—	"A"
	A	B	—			
KNOWN O	B	A	+		+	
	A	B	—			
KNOWN AB	B	A	+		—	
	A	B	+			
Q1 4B	B	A	+		—	"A"
	A	B	—			
Q1 5B	B	A	+		+	"A"
	A	B	—			
Q1 6B	B	A	+		+	"A"
	A	B	—			

CASE # PC-N 4398

Tube elu
BLOOD GROUPING

DATE 6.13.77

SPECIMEN	SERUM	CELLS	STAIN	CONTROL	GROUP	REMARKS
Q1	B	A	+	/	-	"A"
7B	A	B	-			
Q1	B	A	+	/	-	"A"
8B	A	B	-			
Q1	B	A	+	/	+	"A"
9B	A	B	-			
Q1	B	A	+	/	+	"A"
10B	A	B	-			
Q1	B	A	+	/	-	"A"
11B	A	B	-			
KNOWN	B	A	-	/	TR	
O	A	B	-			
KNOWN	B	A	+	/	-	
AB	A	B	+			
Q1	B	A	+	-	-	"A"
12B	A	B	-	-	-	
Q1	B	A	+	/	-	"A"
13B	A	B	-			
Q1	B	A	+	/	+	"A"
14B	A	B	-			
Q1	B	A	-	/	-	"O"
15B	A	B	-			
Q1	B	A	+	/	+	"A"
16B	A	B	-			
Q3	B	A	+	/	TR	"A"
1B	A	B	-			
Q3	B	A	+	/	+	"A"
2B	A	B	-			

CASE # PC-N 4398

Tube elu
BLOOD GROUPING

DATE 6.13.77

SPECIMEN	SERUM	CELLS	STAIN	CONTROL	GROUP	REMARKS
KNOWN O	B	A	—		TR	
	A	B	—			
KNOWN AB	B	A	+		—	
	A	B	+			
Q3 3B	B	A	+		TR	"A"
	A	B	—			
Q3 4B	B	A	+		—	"A"
	A	B	—			
Q3 5B	B	A	TR		—	"A"
	A	B	—			
Q3 6B	B	A	+		+	"A"
	A	B	—			
Q4 1B	B	A	—		+	"O"
	A	B	—			
Q4 2B	B	A	—		—	"O"
	A	B	—			
Q4 3B	B	A	+		+	"A"
	A	B	—			
Q4 4B	B	A	+		—	"A"
	A	B	—			
KNOWN O	B	A	—		TR	
	A	B	—			
KNOWN AB	B	A	+		—	
	A	B	+			
Q4 5B	B	A	+		TR	"A"
	A	B	—			
Q4 6B	B	A	+		—	"A"
	A	B	—			

CASE # PC-N 4398*Tube elu*
BLOOD GROUPINGDATE 6.13.77

SPECIMEN	SERUM	CELLS	STAIN	CONTROL	GROUP	REMARKS
Q4	B	A	+	/	+	"A"
1B	A	B	-			
Q5	B	A	-	/	-	"O"
1B	A	B	-			
Q5	B	A	+	/	-	"A"
2B	A	B	-			
Q5	B	A	-	/	-	"O"
3B	A	B	-			
Q5	B	A	+	/	-	"A"
4B	A	B	-			
Q5	B	A	+	/	-	"A"
5B	A	B	-			
KNOWN D	B	A	-	/	TR	
	A	B	-			
KNOWN AB	B	A	+	/	-	
	A	B	+			
Q5	B	A	+	/	-	"A"
6B	A	B	-			
Q5	B	A	+	/	-	"A"
7B	A	B	-			
Q5	B	A	-	/	+	"O"
8B	A	B	-			
Q5	B	A	+	/	-	"A"
(L) 9B	A	B	-			
(M)	B	A	+	/	-	"A"
	A	B	-			
(D)	B	A	+	/	-	"A"
	A	B	-			

CASE # PC-N 4398

Tube also
BLOOD GROUPING

DATE 6.13.77

SPECIMEN	SERUM	CELLS	STAIN	CONTROL	GROUP	REMARKS
Q6 (L) 1B	B	A	—	/	—	"O"
	A	B	—			
(M)	B	A	—	/	—	"O"
	A	B	—			
KNOWN O	B	A	—	/	TR	
	A	B	—			
KNOWN AB	B	A	+	/	—	
	A	B	+			
Q6 (P) 1B	B	A	—	/	—	"O"
	A	B	—			
Q6 (L) 2B	B	A	—	/	—	"O"
	A	B	—			
(M)	B	A	—	/	—	"O"
	A	B	—			
(D)	B	A	—	/	—	"O"
	A	B	—			
	B	A				
	A	B				
	B	A				
	A	B				
	B	A				
	A	B				
	B	A				
	A	B				
	B	A				
	A	B				

RECORDED
4/22/77
tkl

FEDERAL BUREAU OF INVESTIGATION
UNITED STATES DEPARTMENT OF JUSTICE

Laboratory Work Sheet

To: **SAC, Little Rock (184-28)**

FBI FILE NO.

184-565-10

LAB NO.

PC-N4398 TK LY

Re:

**UNSUBS;
 ARE ISAAC PIPKIN - VICTIM,
 SECURITY POLICE OFFICER,
 DEER, ARKANSAS, POLICE NEW
 DEPARTMENT; POLICE KILLING**

YOUR NO.

Examination by:



b7C



OO: Little Rock

Examination requested by:

Little Rock

*Q5 from TK 4/21/77
 Q6 from TK 5/25/77
 (C)*

Reference:

Airtel 4/12/77

Examination requested:

Chemical Analyses - Instrumental

Specimens received:

4/14/77

Q1	Trousers
Q2	Belt
Q3	Shirt
Q4	Thermal undershirt
Q5	Jacket
Q6	Tire tool

*2 spec
 3 mircron
 2 inches from*

Specimen Q5 and the debris obtained by shaking and scraping this item was examined. The Q5 debris contained 2 very small paint particles composed essentially of a dark green wrinkled finish top coat over a black primer. These paint particles were different from foreign gray paint on the Q6 tire tool.

The specific source of these Q5 paint particles is not known to the Laboratory; however this type of finish is widely used on instruments, appliances, business machines, and filing cabinets.

These paint particles are suitable for comparison purposes.

R-N43824

Q5 - Jacket - scraped & debris collected - some of debris -
some paint patches with file marks.

Also satelite
V/blood - metal weather



Red ground at top? - weathered
black - finish that

Notice grey silver layer paint

on top of some area - a smear?

or an over spray for alloy area?

gc - diff Q6 - ch diff Q1

no more at
this time.

Q1 - this tool - note grey soil in with bent - some grey smear
painted Q6 - Color diff for Q5, gc
gc diff Q5 - ch diff Q5

660 Principles of Surface Coating Technology

Formula 19. Blue Baked Hammer Finish

Material	Manufacturer	Lb.
BA-9290 Iron blue	Holland-Suco Color Co.	8
Nonleafing aluminum paste		9
880 X-60 Aropol	Archer-Daniels-Midland Co.	420
MX-61 amino resin	Rohm & Haas Co.	75
No. 200 silicone oil (1% in xylol)	Dow Corning Corp.	1
Xylol		277
		790

Weight per gallon 7.9 lb.

Bake 1 hour at 200°F.

metallic enamels and allowing them to air-flash a few minutes before spraying them lightly with solvent in fairly large droplets at low pressure with a special gun. The solvent droplets spread out on the surface, partly solvated the coating, and produced the hammered appearance. This, of course, was essentially a two-coat system that required considerable skill of application.

Modern hammer finishes are specially formulated to give the hammered effect in one spray coat. The most commonly used vehicles are the styrenated alkyd resins. Typical formulas are given in 18 and 19.

Wrinkle finishes

Wrinkle finishes, as the name implies, dry to a wrinkled appearance rather than to the smooth uniform surface of most industrial finishes. They are applied in thick films which are formulated to skin-dry quickly but remain soft underneath until baked. The subfilm, which contracts in the baking process, produces the wrinkled effect in the outer skin.

Wrinkle finishes are widely used on instruments, appliances, business machines and filing cabinets. When properly made and applied, they form tough, abrasion-resistant, one-coat surfaces that hide minor substrate defects such as file marks. They have an attractive, satin finish, and their coats of more than 2-mil dry-film thickness give protection for years to equipment in constant use.

Wrinkle finishes are generally applied by spraying. They are allowed to air-dry for a while to harden the skin and are then baked for thorough drying.

Many factors, such as type of vehicle, pigment-binder ratio, type and amount of drier, application viscosity, and air-dry time, affect the wrinkle pattern. Most users demand a fine, uniform pattern and a fairly low gloss.

Wrinkle finishes are made from specially cooked liquids containing tung or oiticica oils. Varnishes of about 25-gal. oil length, consisting of modified phenolic resin in tung oil, are fairly representative. Wrinkle-type alkyd resins containing tung or oiticica are also widely used. These finishes are usually heavily loaded with cobalt drier to produce the fast skin drying necessary for the wrinkled effect (Formula 20).

Formula 20 Alkyd Wrinkle Finish

Material	Lb.
Chrome green	85
Troykyd antisettle agent	5
Soya lecithin	2
Wrinkle alkyd (60% N.V.) Reichhold P-271-60	560
Toluol	178
Cobalt naphthenate (6% Co)	20
Manganese naphthenate (6% Mn)	10
	860
Weight per gallon	8.60 lb.

Crystallizing finishes

Enamel-type crystallizing finishes are made by adding raw tung oil to alkyd or oleoresinous enamels. When air-dried or baked at around 150°F., the tung oil gives the finish a "frosted" or crystallized appearance. Further baking at around 250°F. serves to harden the films in a uniform crystallized pattern.

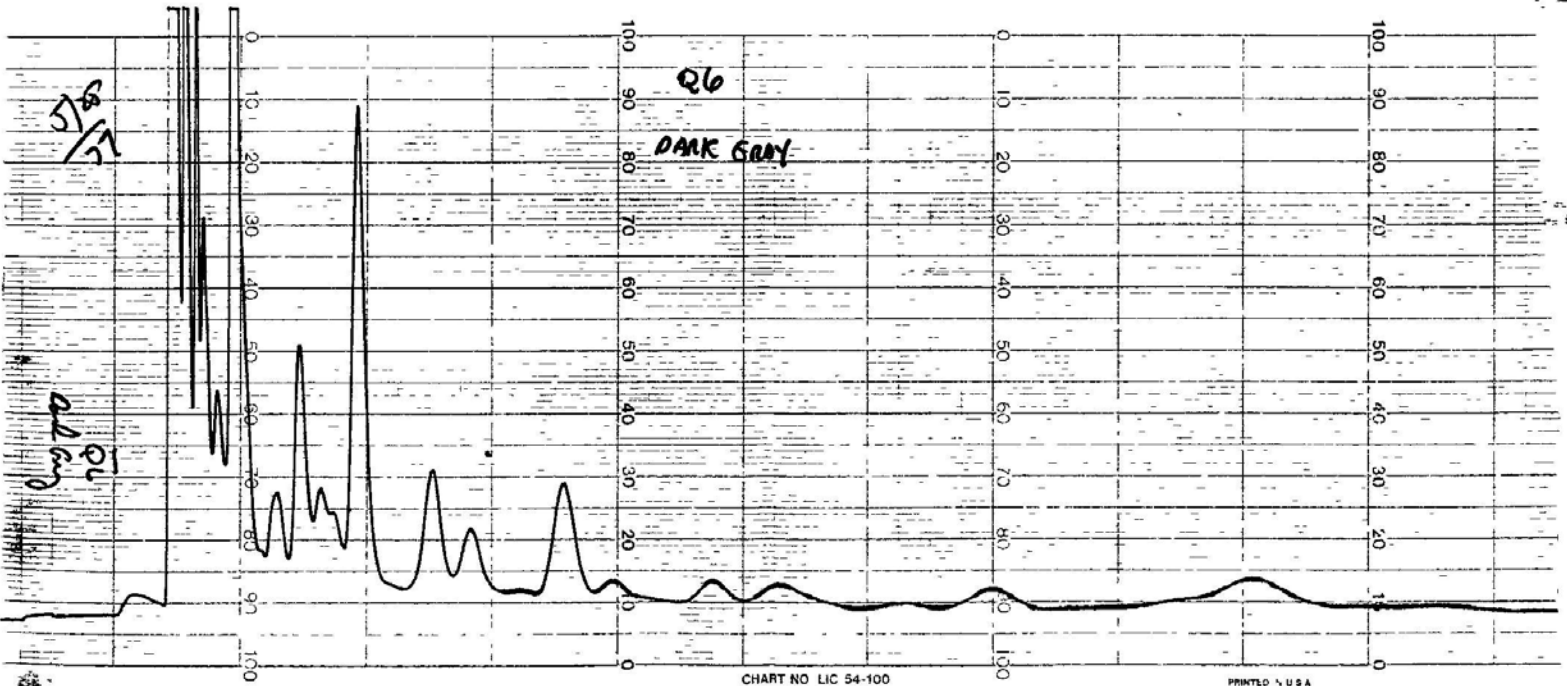
Crystallizing lacquers contain a little naphthalene or *p*-dichlorobenzene which dissolves in the solvents and crystallizes as the lacquer

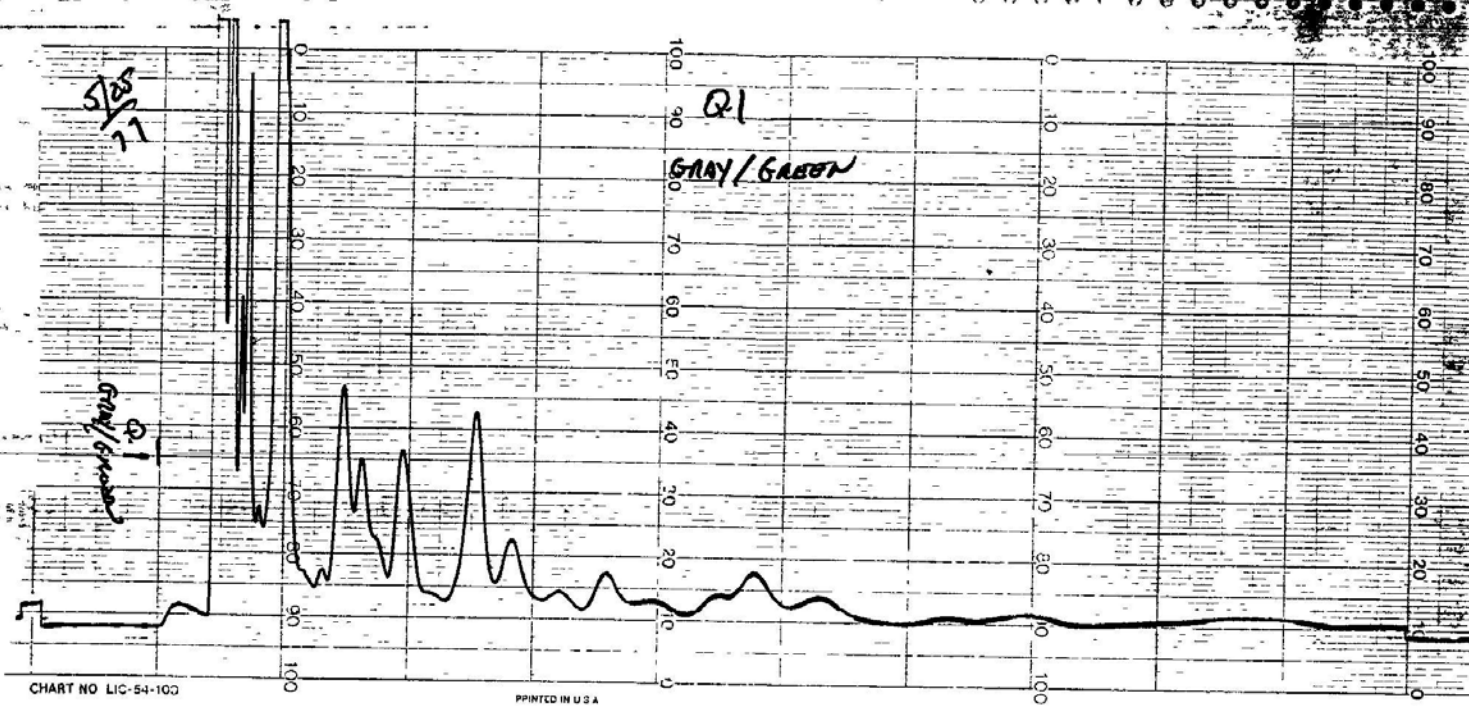
Cocoa lacquers

These are two- or three-coat systems consisting of a ground coat which dries to a hard, uniform film and a second coat of a different color containing a considerable amount of an aluminum stearate gel with high pigmentation and low plasticizer content. The second coat, which

PC-N43984y
Chart

FILE # PC-N43984y
CONTENTS LAB WORK SHEET ITEMS
184-565-10
DO NOT STAMP OR HANDLE AS ENCLOSURE



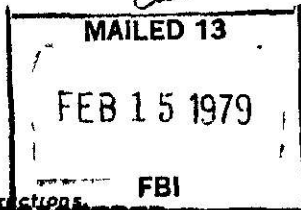


FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D C 20535DATE **February 7, 1979**

Re

TO **SAC, Little Rock (184-23)****UNKNOWN SUBJECT;
ABE ISAAC PIPKIN - VICTIM;
SECURITY POLICE OFFICER,
BEEBE, ARKANSAS, POLICE
DEPARTMENT; POLICE KILLING****OO: Little Rock**

Invoice of Contents

**Q1 - Q6
Q17 - Q22****717347**

Special Instructions:
 Mail Room: ~~Check~~ date and registry number
 Shipping Room: Show shipment date, bill of lading number,
 initial invoice, return to Section checked in block, after
 initialing in block, invoice to be placed in administrative file.

62 FEB 23 1979

- ☐ Crypt -Trans
☐ Document
☒ ~~Q1 - Q6~~
☐ Radio Engineering
☐ LFPS



b7C

FBI File No.

184-565**7/1/77****CSR:1cm
(4)****PC-N4307 MC RV LY
PC-N4398 RV LY MC**

FBI/DO

FBI

TRANSMIT VIA.

☐ Teletype
☐ Facsimile
☒ Airtel

PRECEDENCE:

☐ Immediate
☐ Priority
☐ Routine

CLASSIFICATION:

☐ TOP SECRET
☐ SECRET
☐ CONFIDENTIAL
☐ UNCLAS E F T O
☐ UNCLAS

Date 11/26/86

TO: DIRECTOR, FBI (184-565)
 ATTENTION: UNIFORM CRIME REPORTING SECTION,
 JEH, ROOM 7438

FROM: SAC, ~~LITTLE ROCK~~ (184B-23) (RUC)

CHANGED:

HENRY LEE LUCAS;

[REDACTED] - VICTIM;

SECURITY POLICE OFFICER,

BEEBE, ARKANSAS,

POLICE DEPARTMENT;

POLICE KILLING

OO: LITTLE ROCK

Title marked "CHANGED" to delete the unknown subjects and add the names of HENRY LEE LUCAS and [REDACTED]

Re Bureau inquiry re Officer ABE I. PIPKIN, Beebe Police Department, who was killed on duty on April 5, 1977.

DE-297

184-565-11

On November 21, 1986, [REDACTED] CID, Arkansas State Police, Searcy, Arkansas, covering Beebe, Arkansas, advised that HENRY LEE LUCAS, white male, born August 23, 1936, was interviewed in prison in Texas on April 9, 1985, by himself and Prosecuting Attorney [REDACTED] White County, Arkansas. As a result of LUCAS' detailed admission to the murder of Officer ABE I. PIPKIN, he was charged with Capital Felony Murder on April 11, 1985, by Prosecuting Attorney [REDACTED] During the interview of LUCAS, he implicated [REDACTED] white male, born [REDACTED] in the murder of PIPKIN.

ARMED AND DANGEROUS.

7 DEC 2 1986

(2) - Bureau 1-5042
 1 - Little Rock
 JDC/clb
 (3)

Approved PP/mok

Transmitted

(Number)

(Time)

Pe

60 JUL 8 1987

LR 184B-23

[redacted] advised that after the interview of LUCAS, arrangements were being made to interview [redacted] located in a Florida prison, about his involvement in the murder of PIPKIN; however, [redacted] was advised by Florida law enforcement officers that [redacted] refused to be interviewed concerning his involvement in this matter. No further effort has been made to interview [redacted] concerning his involvement, and he has not been charged as an accomplice in the murder to date.

b7C

No trial date for LUCAS has been set.

ARMED AND DANGEROUS.