UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

SITE BIG RIVER MINE
ID# MOD981126899
BREAK 13
OTHER Data Transmittal 10-13-88
07CR

C2

OCT 13 1988

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

40108313

SUPERFUND RECORDS

Mr Arthur J Hulsey
County Clerk
2nd Floor, Court House
Farmington, Missouri 63640

Dear Mr Hulsey

Enclosed is a copy of the analytical data, Data Qualification Codes sheet, and field sheets for the soil samples collected along Airport Road near Cabanne Course as indicated on the on enclosed map. The samples were collected at the time of the inspection of the Big River Mine Tailings site in May 1988 by Ecology and Environment, Inc , a contractor for the U S Environmental Protection Agency (EPA)

The three samples collected on county property were used as background samples Lead was detected in the three samples taken at levels ranging from 410-570 mg/kg (milligram per kilogram) The typical medium background level for lead in soil is 29 mg/kg None of the other metals were detected at levels significantly (10 x) above typical medium background levels

This information is forwarded to you in accordance with the provisions of Section 3007(a) of the Resource Conservation and Recovery Act of 1976 (RCRA), and Section 104(e)(4)(B) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) as amended by the Superfund Amendments and Reauthorization Act of 1986 If you have any questions regarding this analytical data, please contact Cecilia Tapia of my staff at (913) 236-2856

Sincerely yours,

Robert L Morby
Chief, Superfund Branch
Waste Management Division

Enclosure

cc: June Sullens, MDNR

WSTM SPFD PREP TAPIA ka X752 9/27/88 Tapia's Disk #1 DESLOGE

PREP	ATSDR	PREP	WATR	SPFD
TAPIA	PARKER	HERNDON	LANGEMEIER	MORBY
Tapia 9/27/88	9/27/88	KH 10-5-88	10/6/88	10/12/88

EPA Region VII

Data Qualification Codes

U - The material was analyzed for, but was not detected The associated numerical value is the sample quantitation limit

M - Compound was qualitatively identified however, quantitative value is less than contract required quantitation limits (CLP data), or value is less than limit of quantitation (EPA data) and is, therefore an estimated value

J - The associated numerical value is an estimated quantity

I - The data are invalid (compound may or may not be present) Resampling and/or reanalysis is necessary for verification

O - Sample lost or not analyzed

L - Value known to be higher than value reported

N - Presumptive evidence of presence of material

NA - Sample was not analyzed for this compound

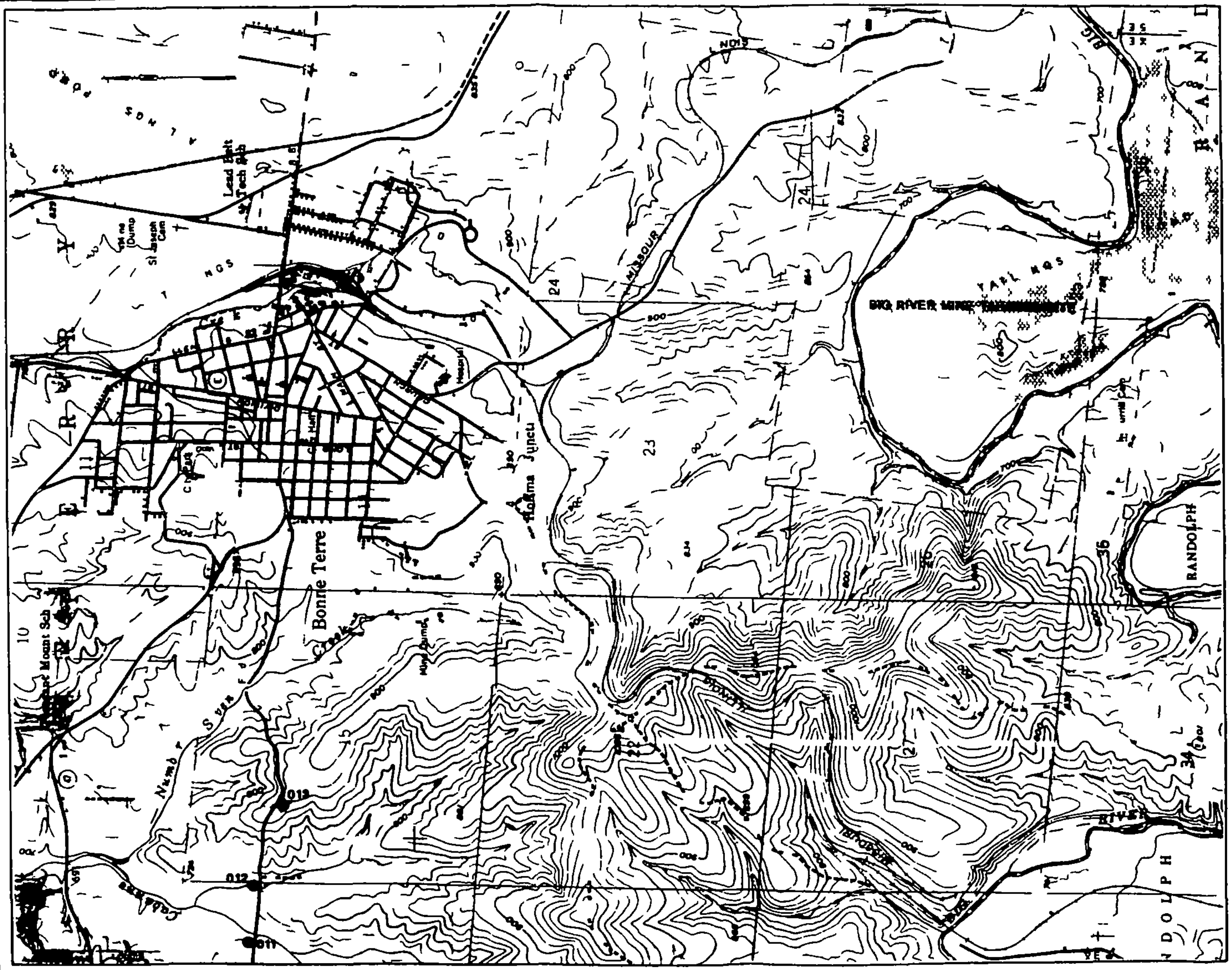
NJ - Presumptive evidence of the presence of the material at an estimated quantity

UJ - The material was analyzed for, but was not detected The sample quantitation limit is an estimated quantity

Codes for Flash Point Data

L - The sample did not ignite or "flash " This is the highest temperature at which the sample was tested It is possible that the material may be ignitable at higher temperatures

K - The sample did ignite or "flash" at the lowest temperature tested This is usually the ambient temperature at the time of the test It is possible that the material may be ignitable at even lower temperatures



EXPLANATION

● SAMPLE LOCATION

SAMPLING CONDUCTED ON MAY 17 1988

SAMPLE SERIES TK981

BIG RIVER MINE TAILINGS

DESLOGE, MISSOURI

SCALE 1 24000

0 .5 1 MILE

0 .5 1 KILOMETER

ecology and environment inc
OVERLAND PARK KANSAS

PREPARED BY R OVERFELT
WASTE SITE TRACKING NO MO0616

FIT JULY 1988
SOURCE USGS 7.5 BONNE TERRE, MO QUAD 1958

FIGURE 3: BACKGROUND SAMPLE LOCATIONS

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FIELD SHEET
U S ENVIRONMENTAL PROTECTION AGENCY REGION II
ENVIRONMENTAL SERVICES DIV 25 FUNSTON RD KANSAS CITY KS 66115

Site Name BIG RIVER MINE TAILINGS Site Number
Location DESLOGE MO Site Code

Collected YR 88 MO 5 Day 16 Time 1255 Leader B OVERFELT

Sample Number TI 9810 11 SMO #

Sample Media (circle one)
(SOIL) DUST RINSATE SEDIMENT WATER OTHER _____

Sample Split (circle one) YES (NO)

Sample Container	Tag Color	Preservative	Analysis Requested
8 OZ JAR	WHITE		TOTAL METALS

Depth 0-6" Fan # _____ Aliquots 5

Samplers Sharon Martin

COMMENTS OF FIELD PERSONNEL

Site Description Location #1 off site background

IBM-PC

FIELD SHEET
U S ENVIRONMENTAL PROTECTION AGENCY REGION II
ENVIRONMENTAL SERVICES DIV 25 FUNSTON RD KANSAS CITY KS 66115

Site Name BIG RIVER MINE TAILINGS Site Number
Location DESLOGE MO Site Code

Collected YR 88 MO 5 Day 16 Time 1800 Leader B OVERFELT

Sample Number TI 981012 SMO #

Sample Media (circle one)
SOIL DUST RINSATE (SEDIMENT) WATER OTHER _____

Sampl Split (circle one) YES (NO)

Sample Container	Tag Color	Preservative	Analysis Requested
8 oz JAR	WHITE		TOTAL METALS

Depth 0-6" Pan # _____ Aliquots 5

Samplers Sharon Martin

COMMENTS OF FIELD PERSONNEL

Site Description Location #2 off site Background

IBM-PC

FIELD SHEET

[illegible] ENVIRONMENTAL PROTECTION AGENCY REGION II

[illegible]

Site Name IG RIVER MINE BUILDINGS Site Number

Location ESCUDE MO Site Code

Collected R 98 MO 5 Day 16 Time 1805 Leader B [illegible]

Sample Number TR981 # SMO #

[illegible] Media circle one

[illegible] KINSATE SEDIMENT WATER OTHER

[illegible] circle one [illegible] MO

[illegible] Color Preservation Analysis Requested

[illegible] WHITE TOTAL METALS

[illegible] 0-6" Fan # _____ Aliquots 5

[illegible] Sharon Martin

COMMENTS OF FIELD PERSONNEL

Site Description Location # 3 off site

Background

IBM-PC

ANALYSIS TYPE TOTAL METALS

TITLE BIG RIVER MINE
LAB EPA REGION VII
SAMPLE PREP' 2165 ANALYST/ENTRY CRS
MATRIX SEDIMENT
METHOD' 2001S77
REVIEWER
DATA FILL GS1
UNITS MG/KG
CASE
DATE 05/19/88

		TN981011	TN981012
SILVER	MG/KG	50U	20U
ALUMINUM	MG/KG	9000.0	5100 0
ARSENIC	MG/KG	13 0U	10 0U
BARIUM	MG/KG	270 0	300 0
BERYLLIUM	MG/KG	81	52
CADMIUM	MG/KG	2.0U	10 0U
COBALT	MG/KG	15.0	18 0
CHROMIUM	MG/KG	10.0	11 0
COPPER	MG/KG	26.0	26 0
IRON	MG/KG	20000 0	24000 0
MANGANESE	MG/KG	1400 0	1500 0
MOLYBDENUM	MG/KG	6 9	4 7
NICKEL	MG/KG	21 0	18 0
LEAD	MG/KG	410.0	560 0
ANTIMONY	MG/KG	2 0U	1 0U
SELENIUM	MG/KG	20 0U	10 0U
TITANIUM	MG/KG	N/A	N/A
THALLIUM	MG/KG	100 0U	50 0U
VANADIUM	MG/KG	31 0	22 0
ZINC	MG/KG	99 0	99 0
CALCIUM	MG/KG	30000 0	45000 0
MAGNESIUM	MG/KG	16000 0	21000 0
SODIUM	MG/KG	2200 0	2600 0
POTASSIUM	MG/KG	1500 0	1100 0

ANALYSIS TYPE TOTAL METALS

TITLE BIG RIVER MINE
LAB EPA REGION VII
SAMPLE PREP: 2nd ANALYST/ENTRY: GRS 2nd

MATRIX SEDIMENT
METHOD: 2001S77
REVIEWER: HSB
DATA FILE GS1

UNITS MG/KG
CASE
DATE: 05/19/88

		TK981013
SILVER	MG/KG	.50U
ALUMINUM	MG/KG	6600.0
ARSENIC	MG/KG	12.0U
BARIUM	MG/KG	140.0
BERYLLIUM	MG/KG	.42
CADMIUM	MG/KG	2.0U
COBALT	MG/KG	11.0
CHROMIUM	MG/KG	6.3
COPPER	MG/KG	29.0
IRON	MG/KG	15000.0
MANGANESE	MG/KG	1100.0
MOLYBDENUM	MG/KG	5.2
NICKEL	MG/KG	10.0
LEAD	MG/KG	570.0
ANTIMONY	MG/KG	2.0U
SELENIUM	MG/KG	20.0U
TITANIUM	MG/KG	N/A
THALLIUM	MG/KG	100.0U
VANADIUM	MG/KG	19.0
ZINC	MG/KG	97.0
CALCIUM	MG/KG	44000.0
MAGNESIUM	MG/KG	23000.0
SODIUM	MG/KG	2800.0
POTASSIUM	MG/KG	1200.0