

SL 1
1/6/91 DJM

LOWMAN SITE, IDAHO

SOIL DIGEST - EPA 3050 METHOD

PURPOSE:

To quantify the geochemical attenuation processes in the vadose zone at the Lowman site two test pits were constructed and discreet sampling was performed in the vertical profile, Figure 1.

The samples were carefully wrapped and shipped to an analytical laboratory for soil digest analyses. The analytical method was the EPA 3050 soil digest.

METHOD:

The test pits were excavated with a backhoe. The UMTRA senior geochemist performed the sampling during July, 1990. The samples were shipped to Barringer Labs.

The numbering system is as follows:

TEST PIT 645

Located in the subpile,
under the ore storage pile

800 (0-1 inches)
801 (1-2 inches)
802 (2-3 inches)
803 (4-6 inches)
804 (6-8 inches)
805 (8-10 inches)
806 (10-12 inches)

TEST PIT 648

Under the footprint of
the proposed cell

807 (0-6 inches)
808 (6-12 inches)
809 (15-18 inches)
810 (18-24 inches)
811 (30-36 inches)
812 (42-48 inches)
813 (56-60 inches)
814 (66-72 inches)

ANALYSIS:

Plots were constructed of concentrations verses depth for the following hazardous constituents: Copper, Ra-226 & -228, Strontium, Vanadium, and Zinc (See Figures 3.12 and 3.13).

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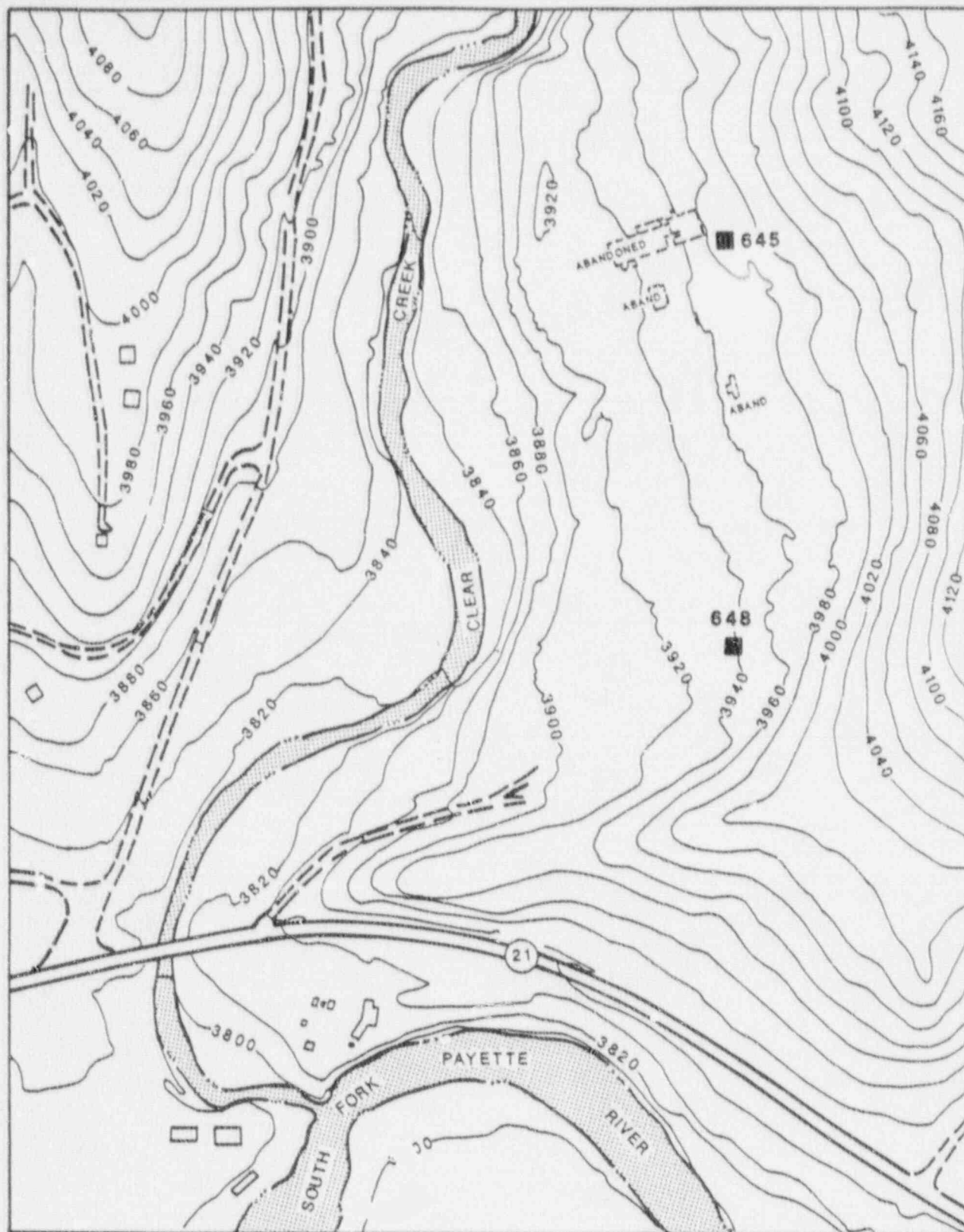
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Results

Analytical data from the soil digest samples collected in continuous depth profiles beneath the stockpiled unprocessed ore and scattered radioactive black sands indicate that uranium and radium-226 and -228 are evenly distributed and represent background values for the regolith. There has been no apparent increase in concentration in these nuclides either because none have been leached from the sands or those that have been leached were transported through without being attenuated. The concentrations of copper, strontium, vanadium and zinc vary irregularly with depth beneath the radioactive sands. Because there is not a regular distribution that indicates increased concentration within a particular location (e.g. near the surface) or material (e.g. in an organic rich layer), there is no indication that these constituents have been added from the overlying sands during the 30 years that they have been in place. Because the groundwaters beneath the site show no hazardous constituents in excess of background and the sediments indicate no significant increase in hazardous constituent concentration, one is led to the conclusion, that little has been introduced into the system from the tailings piles.

The reported concentrations of cyanide (CN⁻) are a reflection of the extraction method and the organic material present in the subpile colluvial materials.

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LEGEND

- DIRT ROAD
- STATE HIGHWAY
- TEST PIT

100 0 100 300
SCALE IN FEET

FIGURE
LOCATIONS OF GEOCHEMICAL TEST PITS
AT THE LOWMAN SITE NEAR LOWMAN, IDAHO

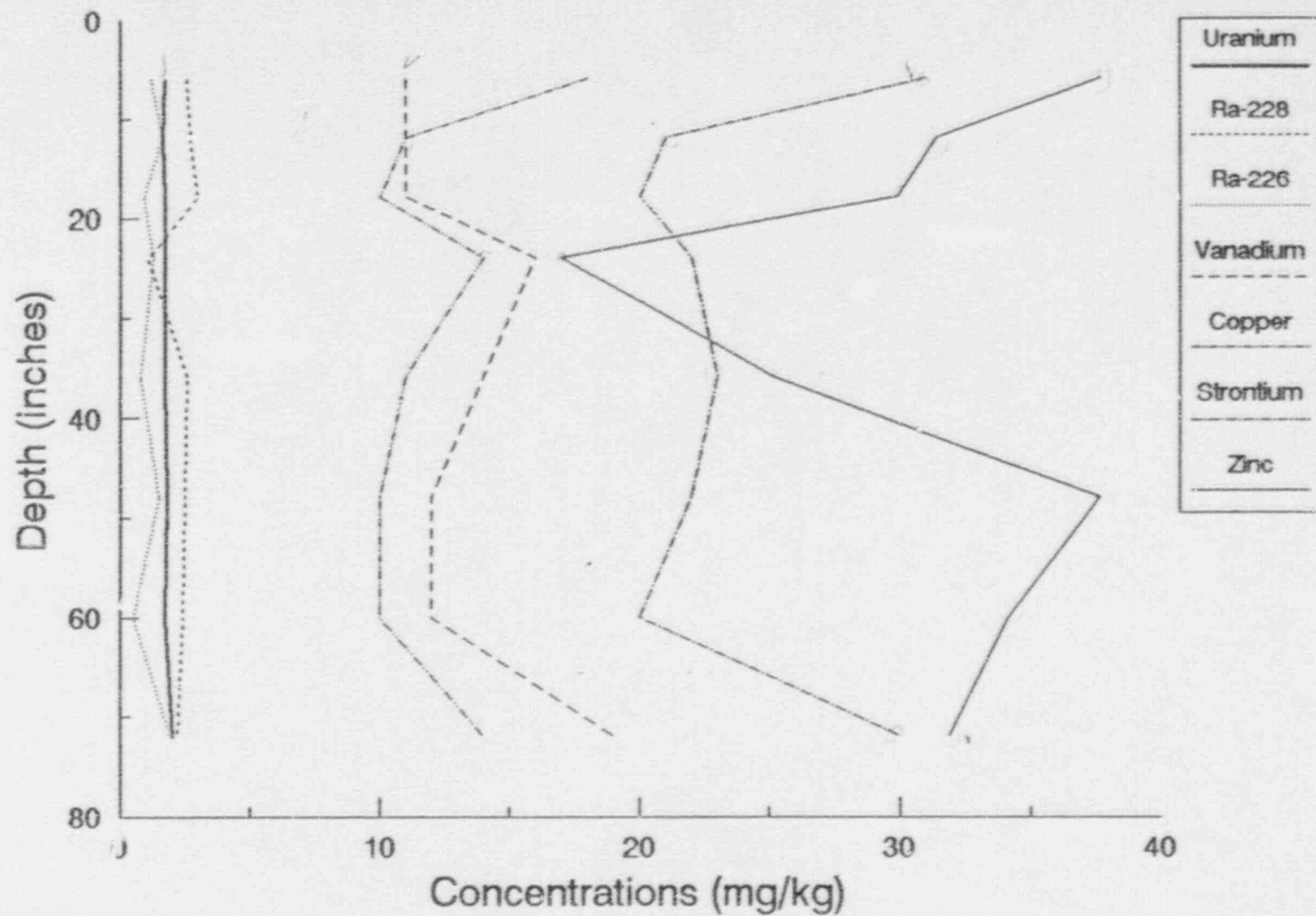
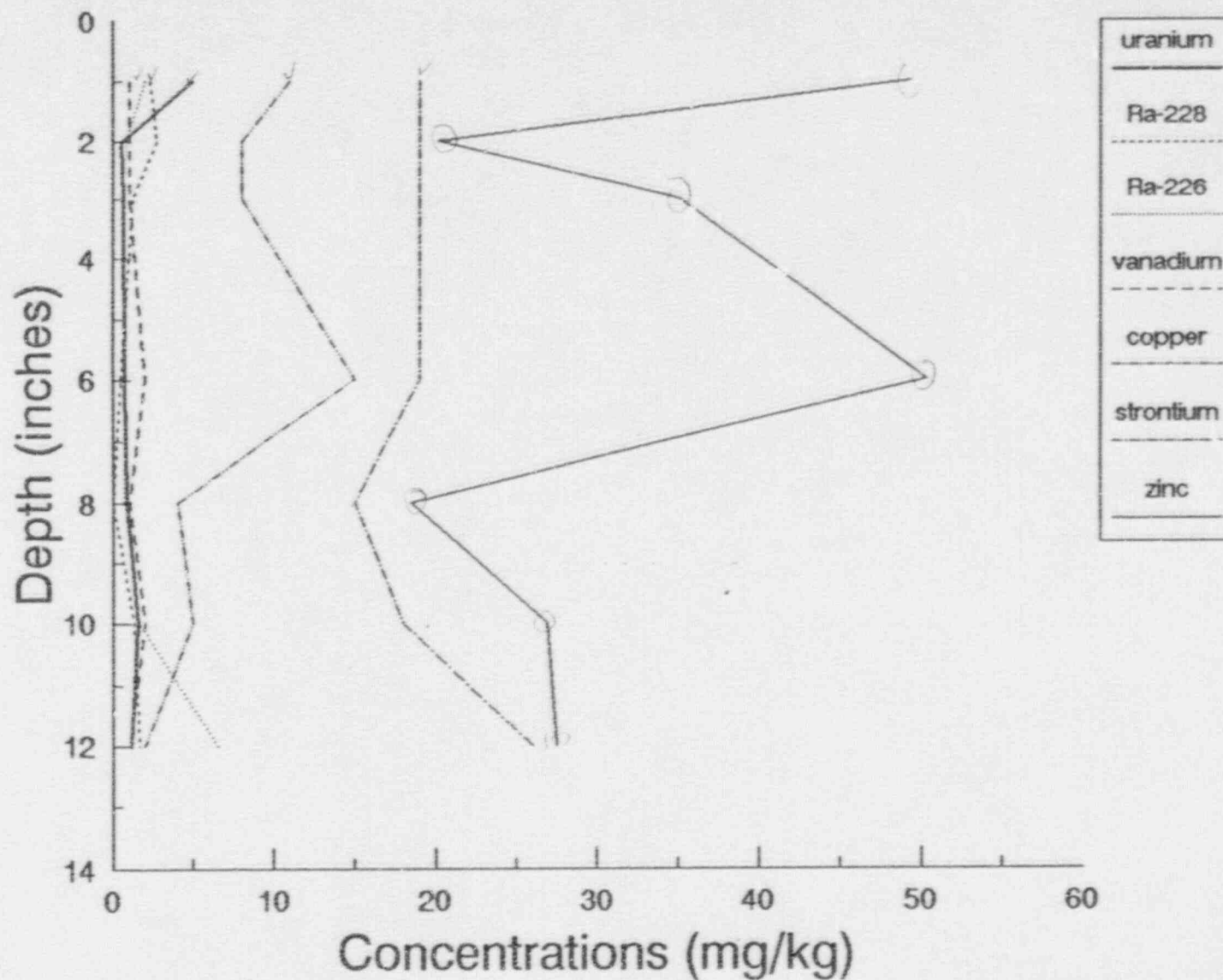


FIGURE 3.13
CONCENTRATION VERSUS DEPTH IN TEST PIT 648

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NOTE: ANTIMONY IS BELOW THE LABORATORY METHOD DETECTION LIMIT

FIGURE 3.12
CONCENTRATIONS VERSES DEPTH IN TEST PIT 645

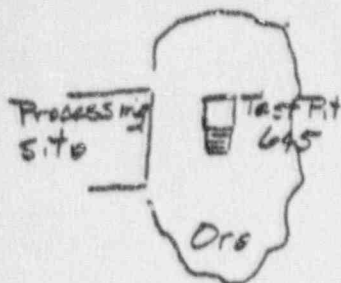
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J. Smith



TEST PIT LOG

Page 1 of 1

LOCATION MAP:



SITE ID: LOW LOCATION ID: 645
APPROX. SITE COORDINATES (11)
N 11.460 E 11.060
GROUND ELEV. (FT. MSL) 3989
DATE EXCAVATED: JUN 25 1992
BACKHOLE TYPE: _____
CONTRACTOR: Bill Luda
FIELD REP: Bill Luda
REHAB. DATE: June 26, 1992

GROUNDWATER LEVELS

DATE	TIME	DEPTH (11)	EST. FLOW (GAL/MIN)

LOCATION DESCRIPTION

SITE CONDITION

DEPTH (11.)	SAMPLE INT TYPE	ID	UNIFIED SOIL CLASS.	VISUAL CLASS.: DENSITY, COLOR, STRENGTH, PLASTICITY, CONDITION, ETC.
0				Ore Mixt, fine grained sands. Dark brown (7.5 YR 3/2) overall. Layers of garnet rich & magnetite rich sands
5				
-7'4"				
-8'4"				Weathered granite (mostly clay w/ remnant quartz) iron stained (10 YR 6.5), brownish yellow
				Trench bottom
		UNIFIED ID	SAMPLE No.	Depth below tailings-rx interface
		E00	645-1	0-1 inch
		E01	645-2	1-2 "
		E02	645-3	2-3 "
		E03	645-4	4-6 "
		E04	645-5	6-8 "
		E05	645-6	8-10 "
		E06	645-7	10-12 "

Grab Samples,
Disturbed

COMMENTS:

SAMPLE TYPE

B - Undisturbed Block Sample
D - Disturbed Bulk Sample

Page 1 of 1

A hand-drawn diagram showing two irregular shapes representing sand samples. The top shape is labeled "White Sand" and the bottom shape is labeled "Black Sand". To the left of the "White Sand" shape, there is a small diagram of a test setup with the label "Test" above it and "F₂₄" below it.

SITE ID: LOW LOCATION ID: 646
APPROX. SITE COORDINATES (11)
N 10,790 E 11,130
GROUND ELEV. (FT. MSL) 3949
DATE EXCAVATED: JUN 25, 1990
BACKHOLE TYPE:
CONTRACTOR: Bill Juch
FIELD REP: Bill DeBris
REHAB. DATE: JUNE 26, 1990

DATE	TIME	DEPTH (ft)	EST. FLOW (GAL/MIN)

LOCATION DESCRIPTION	SITE CONDITION

DEPTH (ft.)	SAMPLE		UNIFIED SOIL CLASS.	VISUAL CLASS.: DENSITY, COLOR, STRENGTH, PLASTICITY, CONDITION, ETC.
	INT. TYPE	ID		
0	Grab	646-1		Immature soil w/ tailings (black 16 in sands) Appears to be fill on top
2	Disturb	646-2		2" old soil. Organic rich layer - buried soil Undifferentiated, brown (10YR 4/3) loam. Gets wetter w/ depth and becomes saturated at ~5 ft
5		646-3		
6		646-4		
7		646-5		
8		646-6		
9				
10				

Bottom of Pit

UNIFIED No.	Sample No	Loc / Description
B07	646-1	4-6" below roots / fill mat
B08	646-2	16-18" below surface / old soil
B09	-3	36" " " / sediment
B10	-4	48" " " " "
B11	-5	60" " " " "
B12	-6	84" " " " "

COMMENTS:

B - Undisturbed Block Sample
D - Disturbed Bulk Sample

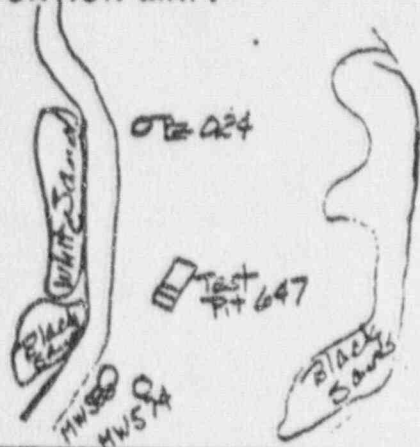


TEST PIT LOG

Page 1 of 1

2/GK
8K 8
DPM

LOCATION MAP:



SITE ID: LOW LOCATION ID: 647
APPROX. SITE COORDINATES (N)
N 10.520 E 10.750
GROUND ELEV. (FT. MSL) 3890
DATE EXCAVATED: JUNE 25, 1990
BACKHOLE TYPE: _____
CONTRACTOR: Bill Judy
FIELD REP: Bill Judy
REHAB. DATE: JUNE 26, 1990

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft)	EST. FLOW (GAL/MIN)

LOCATION DESCRIPTION

SITE CONDITION

DEPTH (ft.)	SAMPLE INT TYPE	ID	UNIFIED SOIL CLASS.	VISUAL CLASS.: DENSITY, COLOR, STRENGTH, PLASTICITY, CONDITION, ETC.
0			UTRA ID NO.	
	Grk	647-1	B13	0-5" tailings - Black sand w/ grass
	Disturb	647-2	B14	12" DE brown (10YR 3/2) soil horizon "A"
		647-3	B15	Brown (10YR 4/4) silty clay
				21" Layer of rounded boulders (22" dia) w/ sand in between
		-4	B16	36" Layer of boulders (11" dia) which are rotten (50% apart in bank)
5		-5	B17	54" Brown (10YR 6/4) sand w/ silt and occasional cobble
		-6	B18	
10				84" Bottom of pit

COMMENTS:

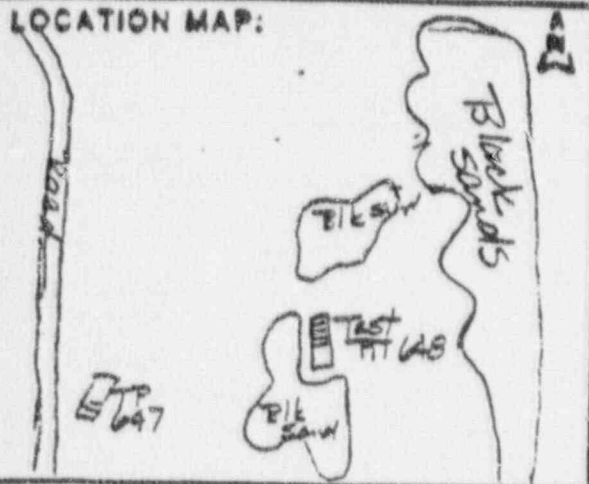
SAMPLE TYPE

- B - Undisturbed Block Sample
D - Disturbed Bulk Sample

TEST PIT LOG

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LOCATION MAP:



SITE ID: LOW LOCATION ID: 648
APPROX. SITE COORDINATES (N)
N 10.558 E 10.940
GROUND ELEV. (FT. MSL) 3914
DATE EXCAVATED: June 26, 1990
BACKHOLE TYPE: _____
CONTRACTOR: Bill Tudy
FIELD REP: Bill Doherty
REHAB. DATE: June 26, 1990

GROUNDWATER LEVELS

DATE	TIME	DEPTH (ft)	EST. FLOW (GAL/MIN)

LOCATION DESCRIPTION
SITE CONDITION

DEPTH (ft.)	SAMPLE INT TYPE	ID	UNIFIED SOIL CLASS.	VISUAL CLASS.: DENSITY, COLOR, STRENGTH, PLASTICITY, CONDITION, ETC.
-0-	Grab	648	UNIFIED	Tailings (Black sands) 6 ft
1	Dist	-2	E19	6 in dk brn (10 YR 3/2) organic rich soil - sandy loam
2		-3	B24	Brown (10 YR 6/6) structureless, sandy clay (CS)
3		-4	B22	
4		-5	B23	
5		-6	B24	
6		-7	B25	Saturated at ~5 ft below interface
7		-8	B26	Partial ? pm
10				Bottom of TP+ (6.0 ft)

COMMENTS:

SAMPLE TYPE

B - Undisturbed Block Sample
D - Disturbed Bulk Sample

Soil Digest - EPA Method 3050 - Soil Chemistry by Parameter
 Subpile Testpits: 645 (800 -806), 648 (807 -815)
 SITE: LOW01 LOWMAN
 07/11/90 TO 07/11/90
 REPORT DATE: 01/06/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	DEPTH RANGE (FT)	UNITS OF MEASURE	PVI	PARAMETER VALUE	DETECTION LIMIT	PARAMETER UNCERTAINTY
ALUMINUM	0800	07/11/90	0001	-	MG/KG		1160.	0.1	-
	0801	07/11/90	0002	-			1560.	0.1	-
	0802	07/11/90	0003	-			1350.	0.1	-
	0803	07/11/90	0004	-			1370.	0.1	-
	0804	07/11/90	0005	-			794.	0.1	-
	0805	07/11/90	0006	-			982.	0.1	-
	0806	07/11/90	0007	-			762.	0.1	-
	0807	07/11/90	0001	-			3700.	0.1	-
	0808	07/11/90	0002	-			2850.	0.1	-
	0809	07/11/90	0003	-			2530.	0.1	-
	0810	07/11/90	0004	-			3160.	0.1	-
	0811	07/11/90	0005	-			2950.	0.1	-
	0812	07/11/90	0006	-			2300.	0.1	-
	0813	07/11/90	0007	-			2170.	0.1	-
	0814	07/11/90	0008	-			4160.	0.1	-
ANTIMONY	0800	07/11/90	0001	-	MG/KG	<	.3	0.003	-
	0801	07/11/90	0002	-		<	.3	0.003	-
	0802	07/11/90	0003	-		<	.3	0.003	-
	0803	07/11/90	0004	-		<	.3	0.003	-
	0804	07/11/90	0005	-		<	.3	0.003	-
	0805	07/11/90	0006	-		<	.3	0.003	-
	0806	07/11/90	0007	-		<	.3	0.003	-
	0807	07/11/90	0001	-		<	.3	0.003	-
	0808	07/11/90	0002	-		<	.3	0.003	-
	0809	07/11/90	0003	-		<	.3	0.003	-
	0810	07/11/90	0004	-		<	.3	0.003	-
	0811	07/11/90	0005	-		<	.3	0.003	-
	0812	07/11/90	0006	-		<	.3	0.003	-
	0813	07/11/90	0007	-		<	.3	0.003	-
	0814	07/11/90	0008	-		<	.3	0.003	-
ARSENIC	0800	07/11/90	0001	-	MG/KG	<	1.	0.01	-
	0801	07/11/90	0002	-		<	1.	0.01	-
	0802	07/11/90	0003	-		<	1.	0.01	-
	0803	07/11/90	0004	-		<	1.	0.01	-
	0804	07/11/90	0005	-		<	1.	0.01	-
	0805	07/11/90	0006	-		<	1.	0.01	-
	0806	07/11/90	0007	-		<	1.	0.01	-
	0807	07/11/90	0001	-		<	2.	0.01	-

PARAMETER VALUE INDICATOR (PVI): < = LESS THAN DETECTION LIMIT

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Soil Digest - EPA Method 3050 - Soil Chemistry by Parameter
 Subsite Testpits: 645 (800 - 806), 648 (807 - 815)
 SITE: LOW01 LOWMAN
 07/11/90 TO 07/11/90
 REPORT DATE: 01/06/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	DEPTH RANGE (FT)	UNITS OF MEASURE	PVI	PARAMETER VALUE	DETECTION LIMIT	PARAMETER UNCERTAINTY
ARSENIC	0808	07/11/90	0002	-	MG/KG		3.	0.01	-
	0809	07/11/90	0003	-			3.	0.01	-
	0810	07/11/90	0004	-			4.	0.01	-
	0811	07/11/90	0005	-			4.	0.01	-
	0812	07/11/90	0006	-			3.	0.01	-
	0813	07/11/90	0007	-			3.	0.01	-
	0814	07/11/90	0008	-			4.	0.01	-
BARIUM	0800	07/11/90	0001	-	MG/KG		69.	0.1	-
	0801	07/11/90	0002	-			95.	0.1	-
	0802	07/11/90	0003	-			82.	0.1	-
	0803	07/11/90	0004	-			79.	0.1	-
	0804	07/11/90	0005	-			56.	0.1	-
	0805	07/11/90	0006	-			62.	0.1	-
	0806	07/11/90	0007	-			57.	0.1	-
	0807	07/11/90	0001	-			227.	0.1	-
	0808	07/11/90	0002	-			158.	0.1	-
	0809	07/11/90	0003	-			122.	0.1	-
	0810	07/11/90	0004	-			114.	0.1	-
	0811	07/11/90	0005	-			124.	0.1	-
	0812	07/11/90	0006	-			107.	0.1	-
	0813	07/11/90	0007	-			103.	0.1	-
	0814	07/11/90	0008	-			215.	0.1	-
BERYLLIUM	0800	07/11/90	0001	-	MG/KG	<	1.	0.01	-
	0801	07/11/90	0002	-		<	1.	0.01	-
	0802	07/11/90	0003	-		<	1.	0.01	-
	0803	07/11/90	0004	-		<	1.	0.01	-
	0804	07/11/90	0005	-		<	1.	0.01	-
	0805	07/11/90	0006	-		<	1.	0.01	-
	0806	07/11/90	0007	-		<	1.	0.01	-
	0807	07/11/90	0001	-		<	1.	0.01	-
	0808	07/11/90	0002	-		<	1.	0.01	-
	0809	07/11/90	0003	-		<	1.	0.01	-
	0810	07/11/90	0004	-		<	1.	0.01	-
	0811	07/11/90	0005	-		<	1.	0.01	-
	0812	07/11/90	0006	-		<	1.	0.01	-
	0813	07/11/90	0007	-		<	1.	0.01	-
	0814	07/11/90	0008	-		<	1.	0.01	-
BORON	0800	07/11/90	0001	-	MG/KG	<	10.	0.1	-

PARAMETER VALUE INDICATOR (PVI): < = LESS THAN DETECTION LIMIT

Handwritten notes: 1/2/91, 8/2/91, 1/2/91

Soil Digest - EPA Method 3050 - Soil Chemistry by Parameter
 Subpile Testpits: 645 (800 -806), 648 (807 -815)
 SITE: LOM01 LOMMAN
 07/11/90 TO 07/11/90
 REPORT DATE: 01/06/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	DEPTH RANGE (FT)	UNITS OF MEASURE	PVI	PARAMETER VALUE	DETECTION LIMIT	PARAMETER UNCERTAINTY
BORON	0801	07/11/90	0002	-	MG/KG	<	10.	0.1	-
	0802	07/11/90	0003	-	MG/KG	<	10.	0.1	-
	0803	07/11/90	0004	-	MG/KG	<	10.	0.1	-
	0804	07/11/90	0005	-	MG/KG	<	10.	0.1	-
	0805	07/11/90	0006	-	MG/KG	<	10.	0.1	-
	0806	07/11/90	0007	-	MG/KG	<	10.	0.1	-
	0807	07/11/90	0001	-	MG/KG	<	10.	0.1	-
	0808	07/11/90	0002	-	MG/KG	<	10.	0.1	-
	0809	07/11/90	0003	-	MG/KG	<	10.	0.1	-
	0810	07/11/90	0004	-	MG/KG	<	10.	0.1	-
	0811	07/11/90	0005	-	MG/KG	<	10.	0.1	-
	0812	07/11/90	0006	-	MG/KG	<	10.	0.1	-
	0813	07/11/90	0007	-	MG/KG	<	10.	0.1	-
	0814	07/11/90	0008	-	MG/KG	<	10.	0.1	-
BROMIDE	0800	07/11/90	0001	-	MG/KG	<	10.	0.01	-
	0801	07/11/90	0002	-	MG/KG	<	10.	0.01	-
	0802	07/11/90	0003	-	MG/KG	<	10.	0.01	-
	0803	07/11/90	0004	-	MG/KG	<	10.	0.01	-
	0804	07/11/90	0005	-	MG/KG	<	10.	0.01	-
	0805	07/11/90	0006	-	MG/KG	<	11.	0.01	-
	0806	07/11/90	0007	-	MG/KG	<	10.	0.01	-
	0807	07/11/90	0001	-	MG/KG	<	10.	0.01	-
	0808	07/11/90	0002	-	MG/KG	<	10.	0.01	-
	0809	07/11/90	0003	-	MG/KG	<	11.	0.01	-
	0810	07/11/90	0004	-	MG/KG	<	10.	0.01	-
	0811	07/11/90	0005	-	MG/KG	<	11.	0.01	-
	0812	07/11/90	0006	-	MG/KG	<	13.	0.01	-
	0813	07/11/90	0007	-	MG/KG	<	13.	0.01	-
	0814	07/11/90	0008	-	MG/KG	<	17.	0.01	-
CADMIUM	0800	07/11/90	0001	-	MG/KG	<	.1	0.001	-
	0801	07/11/90	0002	-	MG/KG	<	.1	0.001	-
	0802	07/11/90	0003	-	MG/KG	<	.1	0.001	-
	0803	07/11/90	0004	-	MG/KG	<	.1	0.001	-
	0804	07/11/90	0005	-	MG/KG	<	.1	0.001	-
	0805	07/11/90	0006	-	MG/KG	<	.1	0.001	-
	0806	07/11/90	0007	-	MG/KG	<	.1	0.001	-
	0807	07/11/90	0001	-	MG/KG	<	.3	0.001	-
PARAMETER VALUE INDICATOR (PVI):	0808	07/11/90	0002	-	MG/KG	<	.1	0.001	-

< = LESS THAN DETECTION LIMIT

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Soil Digest - EPA Method 3050 - Soil Chemistry by Parameter
 Subpile Testpits: 645 (800 -806), 648 (807 -815)
 SITE: LOW01 LOWMAN
 07/11/90 TO 07/11/90
 REPORT DATE: 01/06/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	DEPTH RANGE (FT)	UNITS OF MEASURE	PVI	PARAMETER VALUE	DETECTION LIMIT	PARAMETER UNCERTAINTY
CADMIUM	0809	07/11/90	0003	-	MG/KG	<	-1	0.001	-
	0810	07/11/90	0004	-	MG/KG	<	-1	0.001	-
	0811	07/11/90	0005	-	MG/KG	<	-1	0.001	-
	0812	07/11/90	0006	-	MG/KG	<	-1	0.001	-
	0813	07/11/90	0007	-	MG/KG	<	-1	0.001	-
	0814	07/11/90	0008	-	MG/KG	<	-1	0.001	-
CALCIUM	0800	07/11/90	0001	-	MG/KG		1910.	0.01	-
	0801	07/11/90	0002	-	MG/KG		1770.	0.01	-
	0802	07/11/90	0003	-	MG/KG		1870.	0.01	-
	0803	07/11/90	0004	-	MG/KG		2160.	0.01	-
	0804	07/11/90	0005	-	MG/KG		1480.	0.01	-
	0805	07/11/90	0006	-	MG/KG		1670.	0.01	-
	0806	07/11/90	0007	-	MG/KG		2280.	0.01	-
	0807	07/11/90	0001	-	MG/KG		2520.	0.01	-
	0808	07/11/90	0002	-	MG/KG		2110.	0.01	-
	0809	07/11/90	0003	-	MG/KG		2060.	0.01	-
	0810	07/11/90	0004	-	MG/KG		2161.	0.01	-
	0811	07/11/90	0005	-	MG/KG		2440.	0.01	-
	0812	07/11/90	0006	-	MG/KG		2420.	0.01	-
	0813	07/11/90	0007	-	MG/KG		2300.	0.01	-
	0814	07/11/90	0008	-	MG/KG		3050.	0.01	-
CHLORIDE	0800	07/11/90	0001	-	MG/KG	<	10.	1.0	-
	0801	07/11/90	0002	-	MG/KG	<	10.	1.0	-
	0802	07/11/90	0003	-	MG/KG	<	10.	1.0	-
	0803	07/11/90	0004	-	MG/KG	<	10.	1.0	-
	0804	07/11/90	0005	-	MG/KG	<	10.	1.0	-
	0805	07/11/90	0006	-	MG/KG	<	10.	1.0	-
	0806	07/11/90	0007	-	MG/KG	<	10.	1.0	-
	0807	07/11/90	0001	-	MG/KG	<	10.	1.0	-
	0808	07/11/90	0002	-	MG/KG	<	10.	1.0	-
	0809	07/11/90	0003	-	MG/KG	<	10.	1.0	-
	0810	07/11/90	0004	-	MG/KG	<	10.	1.0	-
	0811	07/11/90	0005	-	MG/KG	<	10.	1.0	-
	0812	07/11/90	0006	-	MG/KG	<	10.	1.0	-
	0813	07/11/90	0007	-	MG/KG	<	10.	1.0	-
	0814	07/11/90	0008	-	MG/KG	<	10.	1.0	-
CHROMIUM	0800	07/11/90	0001	-	MG/KG		11.	0.01	-

PARAMETER VALUE INDICATOR (PVI): < = LESS THAN DETECTION LIMIT

2/26/91
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Soil Digest - EPA Method 3050 - Soil Chemistry by Parameter
 Subpile Testpits: 645 (800 -806), 648 (807 -815)
 SITE: LOMAR
 07/11/90 TO 07/11/90
 REPORT DATE: 01/06/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	DEPTH RANGE (FT)	UNITS OF MEASURE	PVI	PARAMETER VALUE	DETECTION LIMIT	PARAMETER UNCERTAINTY
CHROMIUM	0801	07/11/90	0002	-	MG/KG		12.	0.01	-
	0802	07/11/90	0003	-			15.	0.01	-
	0803	07/11/90	0004	-			15.	0.01	-
	0804	07/11/90	0005	-			8.	0.01	-
	0805	07/11/90	0006	-			9.	0.01	-
	0806	07/11/90	0007	-			6.	0.01	-
	0807	07/11/90	0001	-			10.	0.01	-
	0808	07/11/90	0002	-			9.	0.01	-
	0809	07/11/90	0003	-			8.	0.01	-
	0810	07/11/90	0004	-			10.	0.01	-
	0811	07/11/90	0005	-			9.	0.01	-
	0812	07/11/90	0006	-			9.	0.01	-
	0813	07/11/90	0007	-			9.	0.01	-
	0814	07/11/90	0008	-			13.	0.01	-
COSALT	0800	07/11/90	0001	-	MG/KG	<	5.	0.05	-
	0801	07/11/90	0002	-		<	5.	0.05	-
	0802	07/11/90	0003	-		<	5.	0.05	-
	0803	07/11/90	0004	-		<	5.	0.05	-
	0804	07/11/90	0005	-		<	5.	0.05	-
	0805	07/11/90	0006	-		<	5.	0.05	-
	0806	07/11/90	0007	-		<	5.	0.05	-
	0807	07/11/90	0001	-		<	5.	0.05	-
	0808	07/11/90	0002	-		<	5.	0.05	-
	0809	07/11/90	0003	-		<	5.	0.05	-
	0810	07/11/90	0004	-		<	5.	0.05	-
	0811	07/11/90	0005	-		<	5.	0.05	-
	0812	07/11/90	0006	-		<	5.	0.05	-
	0813	07/11/90	0007	-		<	5.	0.05	-
	0814	07/11/90	0008	-			6.	0.05	-
COPPER	0800	07/11/90	0001	-	MG/KG		11.	0.02	-
	0801	07/11/90	0002	-			8.	0.02	-
	0802	07/11/90	0003	-			8.	0.02	-
	0803	07/11/90	0004	-			15.	0.02	-
	0804	07/11/90	0005	-			4.	0.02	-
	0805	07/11/90	0006	-			5.	0.02	-
	0806	07/11/90	0007	-		<	2.	0.02	-
	0807	07/11/90	0001	-			18.	0.02	-
	0808	07/11/90	0002	-			11.	0.02	-

PARAMETER VALUE INDICATOR (PVI): < = LESS THAN DETECTION LIMIT

max
 2/6/91

Soil Dig. - EPA Method 3050 - Soil Chemistry by Parameter
 Subpile Testpl.: 645 (800 -80's), 648 (807 -815)
 SITE: LOM01 LOM01N
 07/11/90 TO 07/11/90
 REPORT DATE: 01/06/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	DEPTH RANGE (FT)	UNITS OF MEASURE	PVI	PARAMETER VALUE	DETECTION LIMIT	PARAMETER UNCERTAINTY
COPPER	0809	07/11/90	0003	-	MG/KG		10.	0.02	-
	0810	07/11/90	0004	-			14.	0.02	-
	0811	07/11/90	0005	-			11.	0.02	-
	0812	07/11/90	0006	-			10.	0.02	-
	0813	07/11/90	0007	-			10.	0.02	-
	0814	07/11/90	0008	-			14.	0.02	-
CYANIDE	0800	07/11/90	0001	-	MG/KG	<	1.	0.01	-
	0801	07/11/90	0002	-		<	1.	0.01	-
	0802	07/11/90	0003	-		<	1.	0.01	-
	0803	07/11/90	0004	-		<	1.	0.01	-
	0804	07/11/90	0005	-		<	1.	0.01	-
	0805	07/11/90	0006	-		<	1.	0.01	-
	0806	07/11/90	0007	-		<	1.	0.01	-
	0807	07/11/90	0001	-			47.	0.01	-
	0808	07/11/90	0002	-			13.	0.01	-
	0809	07/11/90	0003	-			4.	0.01	-
	0810	07/11/90	0004	-			5.	0.01	-
	0811	07/11/90	0005	-			4.	0.01	-
	0812	07/11/90	0006	-		<	1.	0.01	-
	0813	07/11/90	0007	-		<	1.	0.01	-
	0814	07/11/90	0008	-			4.	0.01	-
FLUORIDE	0800	07/11/90	0001	-	MG/KG	<	10.	0.1	-
	0801	07/11/90	0002	-		<	10.	0.1	-
	0802	07/11/90	0003	-		<	10.	0.1	-
	0803	07/11/90	0004	-		<	14.	0.1	-
	0804	07/11/90	0005	-		<	10.	0.1	-
	0805	07/11/90	0006	-		<	10.	0.1	-
	0806	07/11/90	0007	-		<	10.	0.1	-
	0807	07/11/90	0001	-		<	10.	0.1	-
	0808	07/11/90	0002	-		<	10.	0.1	-
	0809	07/11/90	0003	-		<	10.	0.1	-
	0810	07/11/90	0004	-		<	10.	0.1	-
	0811	07/11/90	0005	-		<	10.	0.1	-
	0812	07/11/90	0006	-		<	10.	0.1	-
	0813	07/11/90	0007	-		<	10.	0.1	-
	0814	07/11/90	0008	-		<	10.	0.1	-
GROSS ALPHA	0800	07/11/90	0001	-	PCI/KG		35.	1.0	9.

PARAMETER VALUE INDICATOR (PVI): < = LESS THAN DETECTION LIMIT

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Soil Digest - EPA Method 3050 - Soil Chemistry by Parameter
 Subpile Testpits: 645 (800 -806), 648 (807 -815)
 SITE: LOW01 LOWMAN
 07/11/90 TO 07/11/90
 REPORT DATE: 01/06/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	DEPTH RANGE (FT)	UNITS OF MEASURE	PVI	PARAMETER VALUE	DETECTION LIMIT	PARAMETER UNCERTAINTY
GROSS ALPHA	0801	07/11/90	0002	-	PCI/KG		13.	1.0	7.
	0802	07/11/90	0003	-			11.	1.0	7.
	0803	07/11/90	0004	-			19.	1.0	8.
	0804	07/11/90	0005	-			15.	1.0	7.
	0805	07/11/90	0006	-			14.	1.0	8.
	0806	07/11/90	0007	-			4.9	1.0	6.1
	0807	07/11/90	0001	-			21.	1.0	8.
	0808	07/11/90	0002	-			54.	1.0	10.
	0809	07/11/90	0003	-			26.	1.0	9.
	0810	07/11/90	0004	-			19.	1.0	8.
	0811	07/11/90	0005	-			25.	1.0	8.
	0812	07/11/90	0006	-			26.	1.0	8.
	0813	07/11/90	0007	-			16.	1.0	7.
	0814	07/11/90	0008	-			66.	1.0	12.
GROSS BETA	0800	07/11/90	0001	-	PCI/KG		38.	0.5	5.
	0801	07/11/90	0002	-			30.	0.5	5.
	0802	07/11/90	0003	-			31.	0.5	5.
	0803	07/11/90	0004	-			27.	0.5	5.
	0804	07/11/90	0005	-			32.	0.5	5.
	0805	07/11/90	0006	-			33.	0.5	5.
	0806	07/11/90	0007	-			24.	0.5	5.
	0807	07/11/90	0001	-			32.	0.5	5.
	0808	07/11/90	0002	-			38.	0.5	5.
	0809	07/11/90	0003	-			35.	0.5	5.
	0810	07/11/90	0004	-			34.	0.5	5.
	0811	07/11/90	0005	-			30.	0.5	5.
	0812	07/11/90	0006	-			32.	0.5	5.
	0813	07/11/90	0007	-			24.	0.5	5.
	0814	07/11/90	0008	-			33.	0.5	5.
IRON	0800	07/11/90	0001	-	MG/KG		1360.	0.03	-
	0801	07/11/90	0002	-			2140.	0.03	-
	0802	07/11/90	0003	-			1770.	0.03	-
	0803	07/11/90	0004	-			1380.	0.03	-
	0804	07/11/90	0005	-			883.	0.03	-
	0805	07/11/90	0006	-			1060.	0.03	-
	0806	07/11/90	0007	-			829.	0.03	-
	0807	07/11/90	0001	-			5910.	0.03	-
	0808	07/11/90	0002	-			5150.	0.03	-

PARAMETER VALUE INDICATOR (PVI): < = LESS THAN DETECTION LIMIT

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Soil Digest - EPA Method 3050 - Soil Chemistry by Parameter
 Subpile Testpits: 645 (800 -806), 648 (807 -815)
 SITE: LOM01 LOMMAN
 07/11/90 TO 07/11/90
 REPORT DATE: 01/06/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	DEPTH RANGE (FT)	UNITS OF MEASURE	PVI	PARAMETER VALUE	DETECTION LIMIT	PARAMETER UNCERTAINTY
IRON	0809	07/11/90	0003	-	MG/KG		4240.	0.03	-
	0810	07/11/90	0004	-			5630.	0.03	-
	0811	07/11/90	0005	-			5060.	0.03	-
	0812	07/11/90	0006	-			4020.	0.03	-
	0813	07/11/90	0007	-			3880.	0.03	-
	0814	07/11/90	0008	-			6390.	0.03	-
LEAD	0800	07/11/90	0001	-	MG/KG		9.	0.01	-
	0801	07/11/90	0002	-			6.	0.01	-
	0802	07/11/90	0003	-			5.	0.01	-
	0803	07/11/90	0004	-			7.	0.01	-
	0804	07/11/90	0005	-			8.	0.01	-
	0805	07/11/90	0006	-			6.	0.01	-
	0806	07/11/90	0007	-			16.	0.01	-
	0807	07/11/90	0001	-			11.	0.01	-
	0808	07/11/90	0002	-			11.	0.01	-
	0809	07/11/90	0003	-			14.	0.01	-
	0810	07/11/90	0004	-			14.	0.01	-
	0811	07/11/90	0005	-			15.	0.01	-
	0812	07/11/90	0006	-			11.	0.01	-
	0813	07/11/90	0007	-			15.	0.01	-
	0814	07/11/90	0008	-				0.01	-
LEAD-210	0800	07/11/90	0001	-	PCI/KG		2.6	1.5	0.6
	0801	07/11/90	0002	-			0.7	1.5	0.5
	0802	07/11/90	0003	-			0.7	1.5	0.5
	0803	07/11/90	0004	-			0.5	1.5	0.5
	0804	07/11/90	0005	-			1.1	1.5	0.5
	0805	07/11/90	0006	-			1.1	1.5	0.5
	0806	07/11/90	0007	-			1.5	1.5	0.5
	0807	07/11/90	0001	-			1.2	1.5	0.5
	0808	07/11/90	0002	-			1.3	1.5	0.5
	0809	07/11/90	0003	-			0.8	1.5	0.5
	0810	07/11/90	0004	-			2.1	1.5	0.6
	0811	07/11/90	0005	-			1.0	1.5	0.5
	0812	07/11/90	0006	-			1.2	1.5	0.4
	0813	07/11/90	0007	-			1.0	1.5	0.5
	0814	07/11/90	0008	-			1.0	1.5	0.5
MAGNESIUM	0800	07/11/90	0001	-	MG/KG		549.	0.001	-

PARAMETER VALUE INDICATOR (PVI): < = LESS THAN DETECTION LIMIT

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Soil Digest - EPA Method 3050 - Soil Chemistry by Parameter
 Subpile Testpits: 645 (800 -806), 648 (807 -815)
 SITE: LOW01 LOWMAN
 07/11/90 TO 07/11/90
 REPORT DATE: 01/06/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	DEPTH RANGE (FT)	UNITS OF MEASURE	PVI	PARAMETER VALUE	DETECTION LIMIT	PARAMETER UNCERTAINTY
MAGNESIUM	0801	07/11/90	0002	-	MG/KG		735.	0.001	-
	0802	07/11/90	0003	-			609.	0.001	-
	0803	07/11/90	0004	-			535.	0.001	-
	0804	07/11/90	0005	-			394.	0.001	-
	0805	07/11/90	0006	-			443.	0.001	-
	0806	07/11/90	0007	-			489.	0.001	-
	0807	07/11/90	0001	-			666.	0.001	-
	0808	07/11/90	0002	-			609.	0.001	-
	0809	07/11/90	0003	-			662.	0.001	-
	0810	07/11/90	0004	-			870.	0.001	-
	0811	07/11/90	0005	-			948.	0.001	-
	0812	07/11/90	0006	-			900.	0.001	-
	0813	07/11/90	0007	-			764.	0.001	-
	0814	07/11/90	0008	-			1210.	0.001	-
MANGANESE	0800	07/11/90	0001	-	MG/KG		121.	0.01	-
	0801	07/11/90	0002	-			163.	0.01	-
	0802	07/11/90	0003	-			150.	0.01	-
	0803	07/11/90	0004	-			180.	0.01	-
	0804	07/11/90	0005	-			133.	0.01	-
	0805	07/11/90	0006	-			120.	0.01	-
	0806	07/11/90	0007	-			69.	0.01	-
	0807	07/11/90	0001	-			751.	0.01	-
	0808	07/11/90	0002	-			517.	0.01	-
	0809	07/11/90	0003	-			464.	0.01	-
	0810	07/11/90	0004	-			557.	0.01	-
	0811	07/11/90	0005	-			478.	0.01	-
	0812	07/11/90	0006	-			351.	0.01	-
	0813	07/11/90	0007	-			391.	0.01	-
	0814	07/11/90	0008	-			462.	0.01	-
MERCURY	0800	07/11/90	0001	-	MG/KG		.07	0.0002	-
	0801	07/11/90	0002	-		<	.02	0.0002	-
	0802	07/11/90	0003	-		<	.02	0.0002	-
	0803	07/11/90	0004	-		<	.02	0.0002	-
	0804	07/11/90	0005	-		<	.02	0.0002	-
	0805	07/11/90	0006	-		<	.02	0.0002	-
	0806	07/11/90	0007	-		<	.02	0.0002	-
	0807	07/11/90	0001	-			.10	0.0002	-
	0808	07/11/90	0002	-			.09	0.0002	-

PARAMETER VALUE INDICATOR (PVI): < = LESS THAN DETECTION LIMIT

Soil Digest - EPA Method 3050 - Soil Chemistry by Parameter
 Subpile Testpits: 645 (800-806), 648 (807-815)
 SITE: LOM01 LOM02
 07/11/90 TO 07/11/90
 REPORT DATE: 01/06/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	DEPTH RANGE (FT)	UNITS OF MEASURE	PVI	PARAMETER VALUE	DETECTION LIMIT	PARAMETER UNCERTAINTY
MERCURY	0809	07/11/90	0003	-	MG/KG		.15	0.0002	-
	0810	07/11/90	0004	-			.04	0.0002	-
	0811	07/11/90	0005	-			.04	0.0002	-
	0812	07/11/90	0006	-		<	.02	0.0002	-
	0813	07/11/90	0007	-		<	.02	0.0002	-
	0814	07/11/90	0008	-			.03	0.0002	-
MOLYBDENUM	0800	07/11/90	0001	-	MG/KG	<	1.	0.01	-
	0801	07/11/90	0002	-		<	1.	0.01	-
	0802	07/11/90	0003	-		<	1.	0.01	-
	0803	07/11/90	0004	-		<	1.	0.01	-
	0804	07/11/90	0005	-		<	1.	0.01	-
	0805	07/11/90	0006	-		<	1.	0.01	-
	0806	07/11/90	0007	-		<	1.	0.01	-
	0807	07/11/90	0001	-		<	1.	0.01	-
	0808	07/11/90	0002	-		<	1.	0.01	-
	0809	07/11/90	0003	-		<	1.	0.01	-
	0810	07/11/90	0004	-		<	1.	0.01	-
	0811	07/11/90	0005	-		<	1.	0.01	-
	0812	07/11/90	0006	-		<	1.	0.01	-
	0813	07/11/90	0007	-		<	1.	0.01	-
	0814	07/11/90	0008	-			2.	0.01	-
NICKEL	0803	07/11/90	0001	-	MG/KG	<	4.	0.04	-
	0801	07/11/90	0002	-		<	4.	0.04	-
	0802	07/11/90	0003	-		<	4.	0.04	-
	0803	07/11/90	0004	-		<	4.	0.04	-
	0804	07/11/90	0005	-		<	4.	0.04	-
	0805	07/11/90	0006	-		<	4.	0.04	-
	0806	07/11/90	0007	-		<	4.	0.04	-
	0807	07/11/90	0001	-		<	5.	0.04	-
	0808	07/11/90	0002	-		<	4.	0.04	-
	0809	07/11/90	0003	-		<	4.	0.04	-
	0810	07/11/90	0004	-		<	4.	0.04	-
	0811	07/11/90	0005	-		<	4.	0.04	-
	0812	07/11/90	0006	-		<	4.	0.04	-
	0813	07/11/90	0007	-		<	4.	0.04	-
	0814	07/11/90	0008	-			5.	0.04	-
PHOSPHATE	0800	07/11/90	0001	-	MG/KG		63.	0.1	-

PARAMETER VALUE INDICATOR (PVI): < = LESS THAN DETECTION LIMIT

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 10/10/92

Soil Disposal - EPA Method 3050 - Soil Chemistry by Parameter
 Subplots: 645 (800 -906), 648 (807 -815)
 SITE: LOM01 LOMMAN
 07/11/90 TO 07/11/90
 REPORT DATE: 01/06/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	DEPTH RANGE (FT)	UNITS OF MEASURE	PVI	PARAMETER VALUE	DETECTION LIMIT	PARAMETER UNCERTAINTY
PHOSPHATE	0801	07/11/90	0002	-	MG/KG		69.	0.1	-
	0802	07/11/90	0003	-			60.	0.1	-
	0803	07/11/90	0004	-			44.	0.1	-
	0804	07/11/90	0005	-			52.	0.1	-
	0805	07/11/90	0006	-			57.	0.1	-
	0806	07/11/90	0007	-			50.	0.1	-
	0807	07/11/90	0001	-			1010.	0.1	-
	0808	07/11/90	0002	-			1020.	0.1	-
	0809	07/11/90	0003	-			465.	0.1	-
	0810	07/11/90	0004	-			479.	0.1	-
	0811	07/11/90	0005	-			225.	0.1	-
	0812	07/11/90	0006	-			198.	0.1	-
	0813	07/11/90	0007	-			261.	0.1	-
	0814	07/11/90	0008	-			274.	0.1	-
POLONIUM-210	0800	07/11/90	0001	-	PCI/KG		1.9	1.0	0.4
	0801	07/11/90	0002	-			0.4	1.0	0.2
	0802	07/11/90	0003	-			0.6	1.0	0.3
	0803	07/11/90	0004	-			0.6	1.0	0.3
	0804	07/11/90	0005	-			0.5	1.0	0.3
	0805	07/11/90	0006	-			0.6	1.0	0.3
	0806	07/11/90	0007	-			0.6	1.0	0.3
	0807	07/11/90	0001	-			1.4	1.0	0.3
	0808	07/11/90	0002	-			0.9	1.0	0.3
	0809	07/11/90	0003	-			0.9	1.0	0.3
	0810	07/11/90	0004	-			0.8	1.0	0.3
	0811	07/11/90	0005	-			0.9	1.0	0.3
	0812	07/11/90	0006	-			0.6	1.0	0.3
	0813	07/11/90	0007	-			0.6	1.0	0.3
	0814	07/11/90	0008	-			1.0	1.0	0.3
POTASSIUM	0800	07/11/90	0001	-	MG/KG		364.	0.01	-
	0801	07/11/90	0002	-			477.	0.01	-
	0802	07/11/90	0003	-			417.	0.01	-
	0803	07/11/90	0004	-			396.	0.01	-
	0804	07/11/90	0005	-			348.	0.01	-
	0805	07/11/90	0006	-			360.	0.01	-
	0806	07/11/90	0007	-			283.	0.01	-
	0807	07/11/90	0001	-			595.	0.01	-
	0808	07/11/90	0002	-			770.	0.01	-

PARAMETER VALUE INDICATOR (PVI): < = LESS THAN DETECTION LIMIT

WMO
 10/2/91
 02

Soil Digest - EPA Method 3050 - Soil Chemistry by Parameter
 Subpile Testpits: 645 (800 -806), 648 (807 -815)
 SITE: LOW01 LOWMAN
 07/11/90 TO 07/11/90
 REPORT DATE: 01/06/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	DEPTH RANGE (FT)	UNITS OF MEASURE	PVI	PARAMETER VALUE	DETECTION LIMIT	PARAMETER UNCERTAINTY
POTASSIUM	0809	07/11/90	0003	-	MG/KG		725.	0.01	-
	0810	07/11/90	0004	-			728.	0.01	-
	0811	07/11/90	0005	-			629.	0.01	-
	0812	07/11/90	0006	-			538.	0.01	-
	0813	07/11/90	0007	-			486.	0.01	-
	0814	07/11/90	0008	-			631.	0.01	-
RADIUM-226	0800	07/11/90	0001	-	PCI/KG		2.0	1.0	0.7
	0801	07/11/90	0002	-			0.8	1.0	0.5
	0802	07/11/90	0003	-			0.7	1.0	0.5
	0803	07/11/90	0004	-			0.7	1.0	0.5
	0804	07/11/90	0005	-			0.7	1.0	0.5
	0805	07/11/90	0006	-			1.6	1.0	0.6
	0806	07/11/90	0007	-			6.5	1.0	1.2
	0807	07/11/90	0001	-			1.2	1.0	0.6
	0808	07/11/90	0002	-			1.6	1.0	0.6
	0809	07/11/90	0003	-			0.9	1.0	0.5
	0810	07/11/90	0004	-			1.3	1.0	0.6
	0811	07/11/90	0005	-			0.8	1.0	0.5
	0812	07/11/90	0006	-			1.5	1.0	0.6
	0813	07/11/90	0007	-			0.5	1.0	0.4
	0814	07/11/90	0008	-			1.9	1.0	0.7
RADIUM-228	0800	07/11/90	0001	-	PCI/KG		2.3	1.0	1.5
	0801	07/11/90	0002	-			2.7	1.0	1.5
	0802	07/11/90	0003	-			1.2	1.0	1.4
	0803	07/11/90	0004	-			0.5	1.0	1.8
	0804	07/11/90	0005	-			0.0	1.0	1.7
	0805	07/11/90	0006	-			1.3	1.0	1.8
	0806	07/11/90	0007	-			1.6	1.0	1.6
	0807	07/11/90	0001	-			2.6	1.0	1.7
	0808	07/11/90	0002	-			2.7	1.0	1.6
	0809	07/11/90	0003	-			3.0	1.0	1.6
	0810	07/11/90	0004	-			1.1	1.0	1.5
	0811	07/11/90	0005	-			2.6	1.0	1.8
	0812	07/11/90	0006	-			2.5	1.0	1.8
	0813	07/11/90	0007	-			2.4	1.0	1.8
	0814	07/11/90	0008	-			2.2	1.0	1.7
SELENIUM	0800	07/11/90	0001	-	MG/KG	<	.5	0.005	-

PARAMETER VALUE INDICATOR (PVI): < = LESS THAN DETECTION LIMIT

2/6/91
 12/12/91
 12/12/91

Soil Digest - EPA Method 3050 - Soil Chemistry by Parameter
 Subpile Testpits: 645 (800 -806), 648 (807 -815)
 SITE: LOW01 LOWMAN
 07/11/90 TO 07/11/90
 REPORT DATE: 01/06/91

PARAMETER NAME	LOCATION ID	LOG DATE	SAMPLE ID	DEPTH RANGE (FT)	UNITS OF MEASURE	PVI	PARAMETER VALUE	DETECTION LIMIT	PARAMETER UNCERTAINTY
SELENIUM	0801	07/11/90	0002	-	MG/KG	<	.5	0.005	-
	0802	07/11/90	0003	-		<	.5	0.005	-
	0803	07/11/90	0004	-		<	.5	0.005	-
	0804	07/11/90	0005	-		<	.5	0.005	-
	0805	07/11/90	0006	-		<	.5	0.005	-
	0806	07/11/90	0007	-		<	.5	0.005	-
	0807	07/11/90	0001	-		<	.5	0.005	-
	0808	07/11/90	0002	-		<	.5	0.005	-
	0809	07/11/90	0003	-		<	.5	0.005	-
	0810	07/11/90	0004	-		<	.5	0.005	-
	0811	07/11/90	0005	-		<	.5	0.005	-
	0812	07/11/90	0006	-		<	.5	0.005	-
	0813	07/11/90	0007	-		<	.5	0.005	-
	0814	07/11/90	0008	-		<	.5	0.005	-
SILICA - SiO2	0800	07/11/90	0001	-	MG/KG		3520.	2.0	-
	0801	07/11/90	0002	-			4050.	2.0	-
	0802	07/11/90	0003	-			3650.	2.0	-
	0803	07/11/90	0004	-			3500.	2.0	-
	0804	07/11/90	0005	-			3060.	2.0	-
	0805	07/11/90	0006	-			2820.	2.0	-
	0806	07/11/90	0007	-			2760.	2.0	-
	0807	07/11/90	0001	-			4910.	2.0	-
	0808	07/11/90	0002	-			4600.	2.0	-
	0809	07/11/90	0003	-			4570.	2.0	-
	0810	07/11/90	0004	-			4870.	2.0	-
	0811	07/11/90	0005	-			4800.	2.0	-
	0812	07/11/90	0006	-			4690.	2.0	-
	0813	07/11/90	0007	-			4260.	2.0	-
	0814	07/11/90	0008	-			6280.	2.0	-
SILVER	0800	07/11/90	0001	-	MG/KG	<	1.	0.01	-
	0801	07/11/90	0002	-		<	1.	0.01	-
	0802	07/11/90	0003	-		<	1.	0.01	-
	0803	07/11/90	0004	-		<	1.	0.01	-
	0804	07/11/90	0005	-		<	1.	0.01	-
	0805	07/11/90	0006	-		<	1.	0.01	-
	0806	07/11/90	0007	-		<	1.	0.01	-
	0807	07/11/90	0001	-		<	1.	0.01	-
	0808	07/11/90	0002	-		<	1.	0.01	-

PARAMETER VALUE INDICATOR (PVI): < = LESS THAN DETECTION LIMIT