

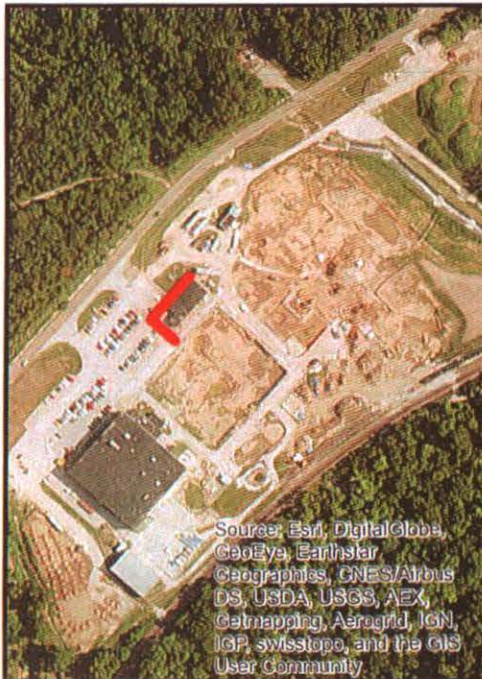
Hematite Decommissioning Project	Procedure: HDP-PR-FSS-712, Final Status Surveys of Structures, Systems, and Components (SSCs)		
	Revision: 5	Page A-1 of 2	

**APPENDIX A-1
FINAL STATUS SURVEY RESULTS**

Survey Unit Description & Survey Unit Number:	STM-1 / PSA 01-01	Survey Log Number:	7134 C 160303	Date:	11/24/2015
Technician(s): Print/Sign/Date	J. Michel / <i>JM</i> 11/24/15	Reviewed by: Print/Sign/Date	J. Bushman / <i>JB</i> 11/24/15	Time:	16:30
Instrument # 1		Instrument # 2		Tennelec	
Instrument & Probe:	Lud 2360/43-68	Instrument & Probe:	N/A	Unit #:	N/A
Instrument SN:	248144	Instrument SN:	N/A	Alpha Bkg:	N/A
Cal Due Date:	10/2/2016	Cal Due Date:	N/A	Alpha Eff:	N/A
Probe Size:	125	Probe Size:	N/A	Alpha MDA (dpm):	N/A
Weighted Eff.:	9.5%	Weighted Eff.:	N/A	Batch No:	N/A
	MDA (dpm/100cm ²): 505.9		MDA (dpm/100cm ²): N/A	Cal Due:	N/A
	Bkg 1: 134		Bkg 1: N/A	Beta Bkg:	N/A
	Bkg 2: 176		Bkg 2: N/A	Beta Eff:	N/A
	Bkg 3: 179		Bkg 3: N/A	Beta MDA (dpm):	N/A
	Ave. Bkg: 163		Ave. Bkg: N/A		

Comments: Systematic and biased FSS survey of STM-1. Bkg taken at waist level in MH-07. Pipe surveyed West to East from MH-07 to MH-19 (long leg). Pipe then surveyed North to South from MH-07 to MH-25 (short leg) Instrument sled pulled via braided steel cable at 1-2" per second. Static measurements taken at all points by allowing instrument to set in place for two minutes ensuring proper count. See map page 2 for systematic and biased locations.

Sample No.	Instrument Number (i.e., 1 or 2)	Description	Removable Alpha		Removable Beta		Total Contamination (α + β)		DCGL Fraction
			Net CPM	DPM / 100cm ²	Net CPM	DPM / 100cm ²	Gross CPM	DPM / 100cm ²	
1	1	P01-01-01-S-O-S-00	N/A	N/A	N/A	N/A	71	0	0.00
2	1	P01-01-02-S-O-S-00	N/A	N/A	N/A	N/A	92	0	0.00
3	1	P01-01-03-S-O-S-00	N/A	N/A	N/A	N/A	73	0	0.00
4	1	P01-01-04-S-O-S-00	N/A	N/A	N/A	N/A	60	0	0.00
5	1	P01-01-05-S-O-S-00	N/A	N/A	N/A	N/A	68	0	0.00
6	1	P01-01-06-S-O-S-00	N/A	N/A	N/A	N/A	63	0	0.00
7	1	P01-01-07-S-O-S-00	N/A	N/A	N/A	N/A	49	0	0.00
8	1	P01-01-08-S-O-S-00	N/A	N/A	N/A	N/A	78	0	0.00
9	1	P01-01-09-S-O-S-00	N/A	N/A	N/A	N/A	63	0	0.00
10	1	P01-01-10-S-O-S-00	N/A	N/A	N/A	N/A	93	0	0.00
11	1	P01-01-11-S-O-S-00	N/A	N/A	N/A	N/A	115	0	0.00
12	1	P01-01-12-S-O-S-00	N/A	N/A	N/A	N/A	87	0	0.00
13	1	P01-01-13-S-O-S-00	N/A	N/A	N/A	N/A	88	0	0.00
14	1	P01-01-14-S-O-S-00	N/A	N/A	N/A	N/A	78	0	0.00
15	1	P01-01-15-S-O-S-00	N/A	N/A	N/A	N/A	77	0	0.00
16	1	Biased reading #1 at 18' - Seam, short leg	N/A	N/A	N/A	N/A	258	804	0.04
17	1	Biased reading #2 at 35' - Seam, short leg	N/A	N/A	N/A	N/A	215	440	0.02
18	1	Biased reading #3 at 46' - Seam, short leg	N/A	N/A	N/A	N/A	191	237	0.01
19	1	Biased reading #4 at 15' - Seam, long leg	N/A	N/A	N/A	N/A	126	0	0.00
20	1	Biased reading #5 at 21' - Seam, long leg	N/A	N/A	N/A	N/A	130	0	0.00
21	1	Biased reading #6 at 38' - Seam, long leg	N/A	N/A	N/A	N/A	115	0	0.00
22	1	Biased reading #7 at 61' - Seam, long leg	N/A	N/A	N/A	N/A	125	0	0.00
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

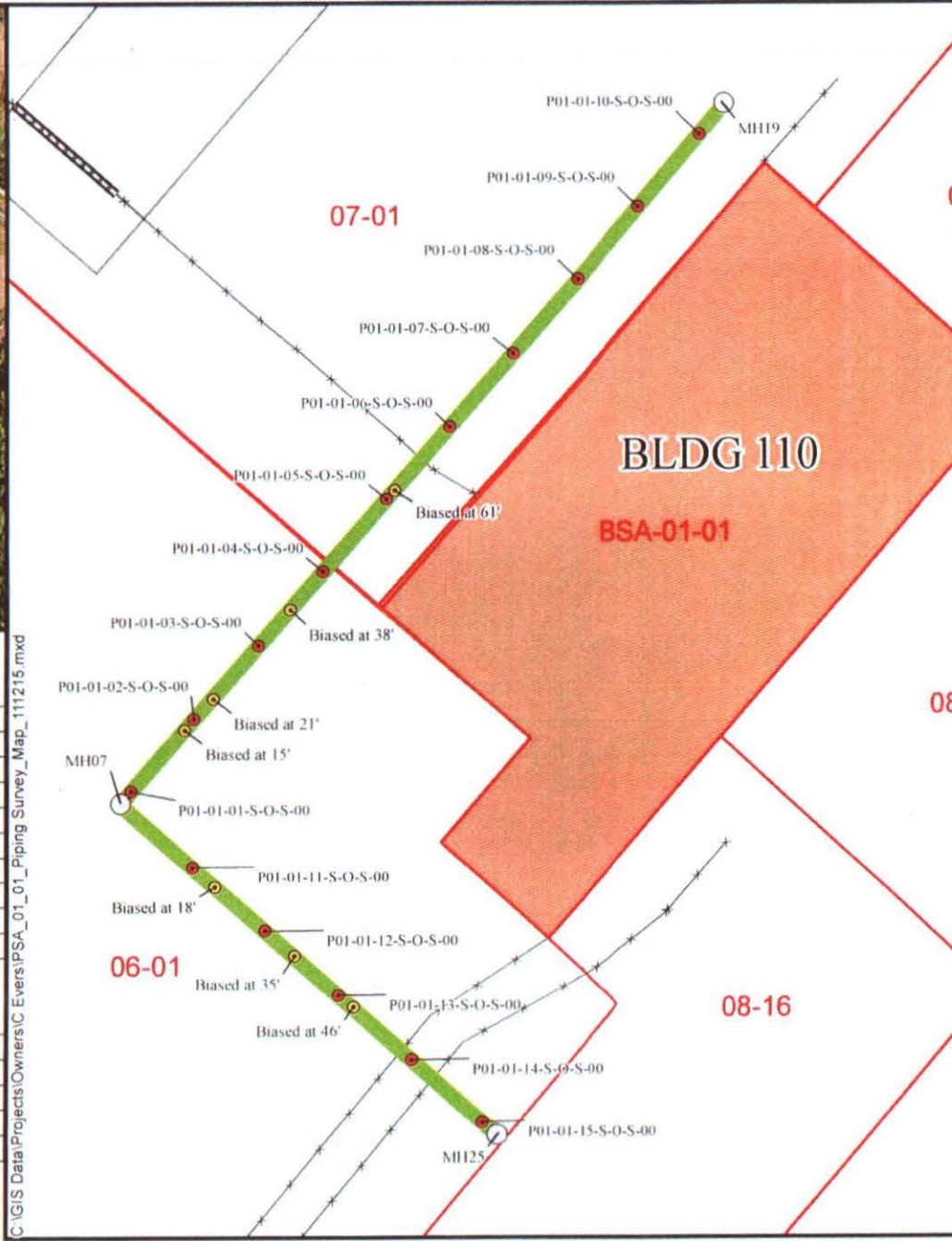


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, AerGRID, IGN, IGP, swisstopo, and the GIS User Community

Survey Unit	Sample ID	Distance Northeast from pipe elbow
PSA-01-01	P01-01-01-S-O-S-00	2 ft.
PSA-01-01	P01-01-02-S-O-S-00	17 ft.
PSA-01-01	P01-01-03-S-O-S-00	31 ft.
PSA-01-01	P01-01-04-S-O-S-00	45 ft.
PSA-01-01	P01-01-05-S-O-S-00	59 ft.
PSA-01-01	P01-01-06-S-O-S-00	73 ft.
PSA-01-01	P01-01-07-S-O-S-00	88 ft.
PSA-01-01	P01-01-08-S-O-S-00	102 ft.
PSA-01-01	P01-01-09-S-O-S-00	116 ft.
PSA-01-01	P01-01-10-S-O-S-00	130 ft.

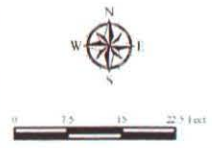
Survey Unit	Sample ID	Distance Southeast from pipe elbow
PSA-01-01	P01-01-11-S-O-S-01	14 ft.
PSA-01-01	P01-01-12-S-O-S-00	28 ft.
PSA-01-01	P01-01-13-S-O-S-00	43 ft.
PSA-01-01	P01-01-14-S-O-S-00	57 ft.
PSA-01-01	P01-01-15-S-O-S-00	71 ft.

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LEGEND:

- Biased Readings
- Sample Location
- STM-1
- LSA Boundaries
- Manholes
- Building
- Haul Road
- Fence



Prepared By: SDJ	Rev: 00	Date: 04/14/16	Document Reason: 100-13613-WF-009
PSA-01-01 Systematic & Biased Survey Survey # 7134-C-160303			
Hematite Decommissioning Project Jefferson County Hematite, MO			