

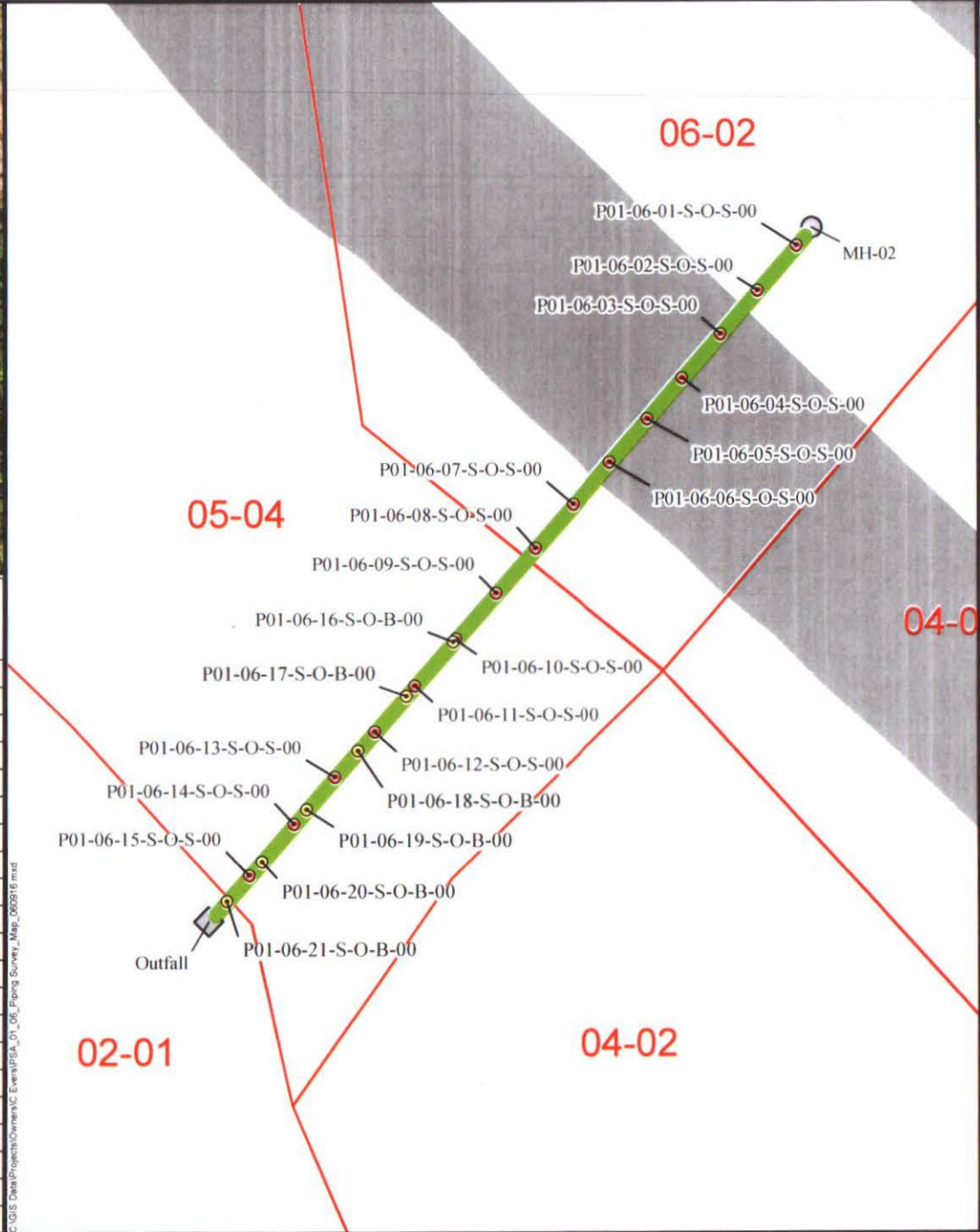
Hematite Decommissioning Project	Procedure: HDP-PR-FSS-712, Final Status Surveys of Structures, Systems, and Components (SSCs)	
	Revision: 5	Page A-1 of 2

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

Survey Unit Description & Survey Unit Number:	STM-6 / PSA 01-06	Survey Log Number:	7657C160608	Date:	6/8/2016
Technician(s): Print/Sign/Date	J. Michel / <i>JM</i> 6/9/16	Reviewed by: Print/Sign/Date	J. Bushman / <i>JB</i> 6/13/16	Time:	16:30
Instrument # 1		Instrument # 2		Tennelec	
Instrument & Probe:	Lud 2360/43-68 MDA (dpm/100cm ²): 460.1	Instrument & Probe:	N/A MDA (dpm/100cm ²): N/A	Unit #:	N/A
Instrument SN:	248144 Bkg 1: 139	Instrument SN:	N/A Bkg 1: N/A	Alpha Bkg:	N/A
Cal Due Date:	10/2/2016 Bkg 2: 129	Cal Due Date:	N/A Bkg 2: N/A	Alpha Eff:	N/A
Probe Size:	125 Bkg 3: 136	Probe Size:	N/A Bkg 3: N/A	Alpha MDA (dpm):	N/A
Weighted Eff.:	9.5% Ave. Bkg: 135	Weighted Eff.:	N/A Ave. Bkg: N/A	Beta MDA (dpm):	N/A
				Batch No:	N/A

Comments: Systematic FSS scan of STM-6. Pipe surveyed from MH-02 Southwest to Outfall. Scan performed manually of all accessible areas on bottom of the pipe. Static measurements taken at all systematic and biased locations. See map page 2 for systematic and biased locations. 3 background readings taken in MH-02 at waist level. The 36" pipe changed from black corrugated piping to concrete piping at approximately 56'. Biased readings were taken at each seam of concrete piping and at the end.

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	P01-06-01-S-O-S-00	N/A	N/A	N/A	N/A	110	0	0.00
2	1	P01-06-02-S-O-S-00	N/A	N/A	N/A	N/A	111	0	0.00
3	1	P01-06-03-S-O-S-00	N/A	N/A	N/A	N/A	116	0	0.00
4	1	P01-06-04-S-O-S-00	N/A	N/A	N/A	N/A	132	0	0.00
5	1	P01-06-05-S-O-S-00	N/A	N/A	N/A	N/A	121	0	0.00
6	1	P01-06-06-S-O-S-00	N/A	N/A	N/A	N/A	106	0	0.00
7	1	P01-06-07-S-O-S-00	N/A	N/A	N/A	N/A	110	0	0.00
8	1	P01-06-08-S-O-S-00	N/A	N/A	N/A	N/A	89	0	0.00
9	1	P01-06-09-S-O-S-00	N/A	N/A	N/A	N/A	230	807	0.04
10	1	P01-06-10-S-O-S-00	N/A	N/A	N/A	N/A	232	824	0.04
11	1	P01-06-11-S-O-S-00	N/A	N/A	N/A	N/A	220	722	0.04
12	1	P01-06-12-S-O-S-00	N/A	N/A	N/A	N/A	209	629	0.03
13	1	P01-06-13-S-O-S-00	N/A	N/A	N/A	N/A	210	638	0.03
14	1	P01-06-14-S-O-S-00	N/A	N/A	N/A	N/A	208	621	0.03
15	1	P01-06-15-S-O-S-00	N/A	N/A	N/A	N/A	266	1112	0.06
16	1	P01-06-16-S-O-B-00	N/A	N/A	N/A	N/A	237	866	0.05
17	1	P01-06-17-S-O-B-00	N/A	N/A	N/A	N/A	199	545	0.03
18	1	P01-06-18-S-O-B-00	N/A	N/A	N/A	N/A	182	401	0.02
19	1	P01-06-19-S-O-B-00	N/A	N/A	N/A	N/A	222	739	0.04
20	1	P01-06-20-S-O-B-00	N/A	N/A	N/A	N/A	240	892	0.05
21	1	P01-06-21-S-O-B-00	N/A	N/A	N/A	N/A	310	1484	0.08
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
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

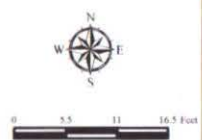


- LEGEND:**
- STM-6 Biased Sample
 - STM - 6 Pipe Sample
 - STM - 6
 - LSA Boundaries
 - Manhole / Outfall
 - Driveway

Survey Unit	Sample ID	Distance from MH-02 toward Outfall
PSA-01-06	P01-06-01-S-O-S-00	2 ft.
PSA-01-06	P01-06-02-S-O-S-00	9 ft.
PSA-01-06	P01-06-03-S-O-S-00	16 ft.
PSA-01-06	P01-06-04-S-O-S-00	23 ft.
PSA-01-06	P01-06-05-S-O-S-00	30 ft.
PSA-01-06	P01-06-06-S-O-S-00	37 ft.
PSA-01-06	P01-06-07-S-O-S-00	44 ft.
PSA-01-06	P01-06-08-S-O-S-00	51 ft.
PSA-01-06	P01-06-09-S-O-S-00	58 ft.
PSA-01-06	P01-06-10-S-O-S-00	65 ft.
PSA-01-06	P01-06-11-S-O-S-00	72 ft.
PSA-01-06	P01-06-12-S-O-S-00	79 ft.
PSA-01-06	P01-06-13-S-O-S-00	86 ft.
PSA-01-06	P01-06-14-S-O-S-00	93 ft.
PSA-01-06	P01-06-15-S-O-S-00	100 ft.
PSA-01-06	P01-06-16-S-O-B-00	65.5 ft.
PSA-01-06	P01-06-17-S-O-B-00	73.5 ft.
PSA-01-06	P01-06-18-S-O-B-00	82 ft.
PSA-01-06	P01-06-19-S-O-B-00	91 ft.
PSA-01-06	P01-06-20-S-O-B-00	99 ft.
PSA-01-06	P01-06-21-S-O-B-00	105 ft.

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SURVEY LOG #
7657 C160608



Requested By: C. Evans	Document Reason: HOP-ENGI3-WP-009		
PSA-01-06 Piping Figure			
Hematite Decommissioning Project Jefferson County Hematite, MO			
Prepared By: SDJ	Rev: 0	Size: 11x17	Date: 12-03-15