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|--|---|---------------|
| Hematite<br>Decommissioning<br>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: | FSS Systematic Survey of BSA 04-07                 | Survey Log Number:              | 7641 C 160607                       | Date:            | 6/7/2016 |
| Technician(s):<br>Print/Sign/Date             | Kyle. Weldon <i>KW</i> <i>Well</i> <i>06-07-16</i> | Reviewed by:<br>Print/Sign/Date | J. Bushman <i>JB</i> <i>6/12/16</i> | Time:            | 8:00     |
| Instrument # 1                                |  | Instrument # 2                  |                                     | Ludlum 3030E "A" |          |
| Instrument & Probe:                           | Lud 2360 43-89 M (dpm/100cm <sup>2</sup> ): 561.7  | Instrument & Probe:             | N/A (dpm/100cm <sup>2</sup> ): N/A  | Unit #:          | N/A      |
| Instrument SN:                                | 278647   | Instrument SN:                  | N/A                                 | Alpha Bkg:       | 0.5      |
| Cal Due Date:                                 | 9/30/2016  | Cal Due Date:                   | N/A                                 | Alpha Eff:       | 36.0%    |
| Probe Size:                                   | 125  | Probe Size:                     | N/A                                 | Alpha MDA (dpm): | 15.1     |
| Weighted Eff.:                                | 8.1%   | Weighted Eff.:                  | N/A                                 | Beta MDA (dpm):  | 108.0    |
|   | Ave. Bkg:  |                                 | Ave. Bkg:                           | Batch No:        | N/A      |
|   | Bkg 1: 145   |                                 | Bkg 1: N/A                          | Cal Due:         | 10/2/16  |
|   | Bkg 2: 150   |                                 | Bkg 2: N/A                          | Beta Bkg:        | 35.3     |
|   | Bkg 3: 148   |                                 | Bkg 3: N/A                          | Beta Eff:        | 21.8%    |

Comments: In preparation for Baker Tank staging an area in BSA 04-07 was surveyed to ensure no contamination was present. Three systematic sample locations as well as a 100 % scan of the area was performed using 2360 43-89 "M". (See map for survey details)

| Sample No. | Instrument Number (i.e., 1 or 2) | Description        | Removable Alpha |                          | Removable Beta |                          | Total Contamination (α + β) |                          | DCGL Fraction |
|------------|----------------------------------|--------------------|-----------------|--------------------------|----------------|--------------------------|-----------------------------|--------------------------|---------------|
|            |                                  |                    | Net CPM         | DPM / 100cm <sup>2</sup> | Net CPM        | DPM / 100cm <sup>2</sup> | Gross CPM                   | DPM / 100cm <sup>2</sup> |               |
| 1          | 1                                | B04-07-11-S-F-S-00 | 1.0             | <MDA                     | 38.0           | <MDA                     | 212                         | 636                      | 0.03          |
| 2          | 1                                | B04-07-10-S-F-S-00 | 2.0             | <MDA                     | 42.0           | <MDA                     | 207                         | 586                      | 0.03          |
| 3          | 1                                | B04-07-08-S-F-S-00 | 1.0             | <MDA                     | 32.0           | <MDA                     | 218                         | 695                      | 0.04          |
| 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           |
| 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           |
| 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           |
| 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           |
| 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           |
| 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           |
| 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           |
| N/A        | N/A                              | N/A                | N/A             | N/A                      | N/A            | N/A                      | N/A                         | N/A                      | N/A           |

|                                  |   |  |
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| Hematite Decommissioning Project | Procedure: HDP-PR-FSS-712. Final Status Surveys of Structures, Systems, and Components (SSCs) |  |
|----------------------------------|---|--|

**FORM HDP-PR-FSS-712-1 FINAL STATUS SURVEY RESULTS**

| Survey Unit Description & Survey Unit Number: FSS Systematic Survey of BSA 04-07 |                  | Survey Log Number: 7641 C 160607        |                | Date: 6/7/2016      |     |                                |     |                  |       |                 |         |
|--|------------------|---|----------------|---------------------|-----|--------------------------------|-----|------------------|-------|-----------------|---------|
| Technician(s): Kyle. Weldon <i>KW</i>  |                  | Reviewed by: J. Bushman <i>JB</i>       |                | Time: 8:00          |     |                                |     |                  |       |                 |         |
| Print/Sign/Date: <i>Weldon 06-07-16</i>  |                  | Print/Sign/Date: <i>Bushman 6/13/16</i> |                |                     |     |                                |     |                  |       |                 |         |
| Instrument # 1   |                  |   | Instrument # 2 |                     |     | Tennelec                       |     |                  |       |                 |         |
| Instrument & Probe:  | Lud 2360 43-89 M | MDA (dpm/100cm <sup>2</sup> ):          | 561.7          | Instrument & Probe: | N/A | MDA (dpm/100cm <sup>2</sup> ): | N/A | Unit #:          | N/A   | Cal Due:        | 10/2/16 |
| Instrument SN:   | 278647           | Bkg 1:                                  | 145            | Instrument SN:      | N/A | Bkg 1:                         | N/A | Alpha Bkg:       | 0.5   | Beta Bkg:       | 35.3    |
| Cal Due Date:  | 9/30/2016        | Bkg 2:                                  | 150            | Cal Due Date:       | N/A | Bkg 2:                         | N/A | Alpha Eff:       | 36.0% | Beta Eff:       | 21.8%   |
| Probe Size:  | 125              | Bkg 3:                                  | 148            | Probe Size:         | N/A | Bkg 3:                         | N/A | Alpha MDA (dpm): | 15.1  | Beta MDA (dpm): | 108.0   |
| Weighted Eff.:   | 8.1%             | Ave. Bkg:                               | 148            | Weighted Eff.:      | N/A | Ave. Bkg:                      | N/A | Batch No:        | N/A   |                 |         |

Comments: In preparation for Baker Tank staging an area in BSA 04-07 was surveyed to ensure no contamination was present. Three systematic sample locations as well as a 100 % scan of the area was performed using 2360 43-89 "M". (See map for survey details)



**BSA 04-07 Gamma Walkover Survey Results**



| Sample ID          | Northing | Easting |
|--------------------|----------|---------|
| B04-07-01-S-F-S-00 | 864532   | 827104  |
| B04-07-02-S-F-S-00 | 864511   | 827116  |
| B04-07-03-S-F-S-00 | 864511   | 827164  |
| B04-07-04-S-F-S-00 | 864490   | 827104  |
| B04-07-05-S-F-S-00 | 864490   | 827128  |
| B04-07-06-S-F-S-00 | 864490   | 827152  |
| B04-07-07-S-F-S-00 | 864490   | 827176  |
| B04-07-08-S-F-S-00 | 864470   | 827116  |
| B04-07-09-S-F-S-00 | 864470   | 827140  |
| B04-07-10-S-F-S-00 | 864449   | 827128  |
| B04-07-11-S-F-S-00 | 864428   | 827116  |

