

7272



Department of Energy  
Office of Legacy Management

January 19, 2011

Mr. Timothy Fischer  
U.S. Environmental Protection Agency  
Region V-SRF-6J  
77 W. Jackson Blvd.  
Chicago, IL 60604-3590

Mr. Thomas A. Schneider  
Ohio Environmental Protection Agency  
401 East 5th Street  
Dayton, Ohio 45402

Dear Mr. Fischer and Mr. Schneider:

**SUBJECT: Transmittal of the December 2010 Fernald Preserve On-Site Disposal Facility Inspection Forms**

The purpose of this letter is to transmit the completed forms for the December 2010 inspection of the On-Site Disposal Facility (OSDF). The inspection was conducted on December 7, 2010. Photographs of the OSDF and the surrounding area were taken to accompany the inspection and are included with this report. The inspection was conducted by S.M. Stoller Corporation. The Ohio Environmental Protection Agency and the Ohio Department of Health were invited to participate in the inspection, but declined.

The inspection process is described in the Fernald Preserve Comprehensive Legacy Management and Institutional Controls Plan (LMICP). The December 2010 included an east/west walk-down of the entire cell cap and a walk-down of the toe of the OSDF, the drainages and fence line. As the photographs show, Cell Caps 4, 5 and 6 were mowed earlier in the fall.

Individuals recorded their findings on the Fernald Preserve OSDF Walk-down Inspection form and indicated the locations of those findings on a map of the OSDF. A consolidated form and map is included with this report. Most findings were related to vegetation, including the presence of woody vegetation. One item of note was the presence of a "soil separation anomaly" on the west face of Cell 7. A light covering of snow prevented a more thorough inspection. Therefore, a follow-up investigation was conducted in early January. The January investigation revealed a 10- to 15-foot long S shaped depression that was 4 to 8 inches wide and 2 to 6 inches deep. It is suspected that this area is a partially or fully collapsed animal burrow rather than a soil separation as indicated on the December 2010 inspection form. It appeared that the area is

2597 B 3/4 Road, Grand Junction, CO 81503	<input type="checkbox"/>	99 Research Park Road, Morgantown, WV 26505
1000 Independence Ave., S.W., Washington, DC 20585	<input type="checkbox"/>	11025 Dover St., Suite 1000, Westminster, CO 80021
10995 Hamilton-Cleves Highway, Harrison, OH 45030	<input type="checkbox"/>	955 Mound Road, Miamisburg, OH 45342
232 Energy Way, N. Las Vegas, NV 89030	<input type="checkbox"/>	
REPLY TO: Harrison Office		

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Mr. Thomas Schneider  
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stable. Several photographs were taken and the location was located via GPS in order to re-evaluate the finding during the next quarterly inspection. Other items that require maintenance are entered on and tracked using the attached Fernald Preserve Maintenance and Repair Action Items form. Items on the list are shaded once they are completed, and items completed before September 2010 are hidden.

If you have any questions regarding this matter, please contact me at (513) 648-6148.

Sincerely,



Jane Powell  
Fernald Preserve Manager  
DOE-LM-20.1

Enclosure

cc w/enclosure:

M. Cullerton, Tetra Tech.  
M. Murphy, USEPA-V, A-18J  
T. Schneider, OEPA (three copies of enclosure)  
M. Shupe, HSI GeoTrans  
Project Record File FER030.1(A) (thru W. Sumner)  
Administrative Records (thru W. Sumner)

cc w/o enclosure:

(electronic)  
T. Pauling, DOE-LM  
J. Homer, Stoller  
F. Johnston, Stoller  
L. McHenry, Stoller

# On-Site Disposal Facility Inspection Report December 2010



U.S. DEPARTMENT OF  
**ENERGY**

Legacy  
Management



**East Face Cell 1**



**West Face Cell 1**



**North Face Cell 1**



**North Drainage (looking west)**



**East Face Cell 2**



**West Face Cell 2**



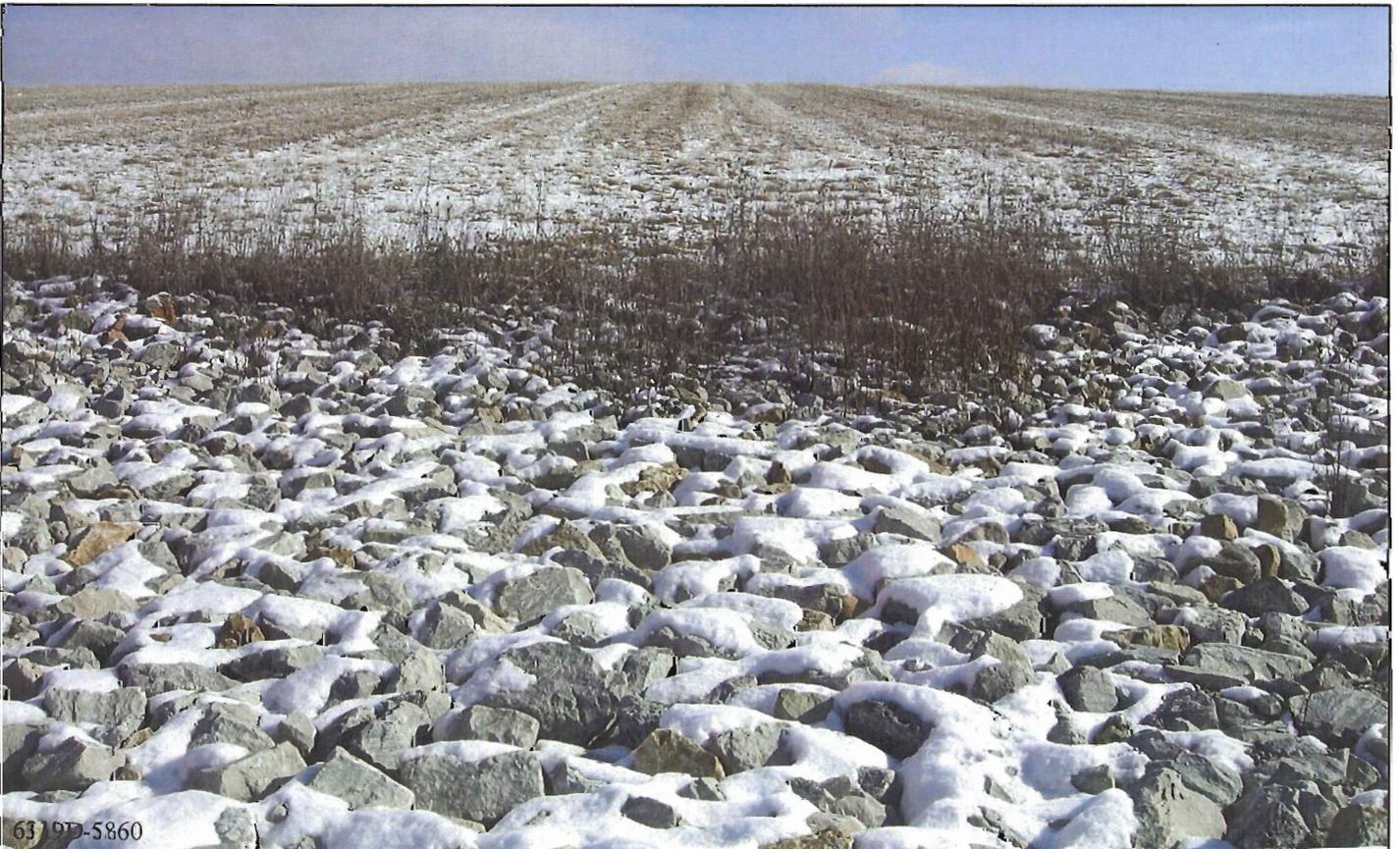
**East Face Cell 3**



**West Face Cell 3**



**East Face Cell 4**



**West Face Cell 4**



**East Face Cell 5**



**West Face Cell 5**



**East Face Cell 6**



**West Face Cell 6**



**East Face Cell 7**



**West Face Cell 7**



**East Face Cell 8**



**West Face Cell 8**



**South Face Cell 8**



**South Drainage (looking west)**



**East Drainage Cell 7 (looking south)**



**East Drainage Cell 4 (looking south)**



**East Drainage Cell 1 (looking south)**



**West Inner Drainage Cell 7 (looking south)**



**West Inner Drainage Cell 4 (looking south)**



**West Inner Drainage Cell 1 (looking south)**



**West Outer Drainage Cell 1 (looking south)**



**West Outer Drainage Cell 8 (looking south)**



**West Outer Drainage Cell 8 (looking north)**

U.S. Department of Energy Office of Legacy Management

Fernald Preserve OSDF Walkdown Inspection

Date 12-7-2010 Inspector Stoller Cell Cap/Area Complete Cell Walkdown

No.	Location (Use Map Whenever Possible)	GPS?	Type of Finding					Description	Photo? (File No.)	Follow Up		
			Erosion	Settlement	Vegetation	Biointrusion	Drainage			Other	Corrected	Maintenance Req'd
SB1	Cell 1 west toe	No			X			Callery pear	No	X		
KP1	Cell 1 NE corner	No				X		2 holes/openings	No		X	
KP2	Cell 3 west 6:1	No				X		1 hole/opening	No		X	
KP3	Cell 4 west 6:1	No				X		Mound/multiple openings	No		X	
JH1	NE Cell 1	No			X			Woody vegetation	No	X		
JH2	West Cell 2 6:1	No			X			Woody vegetation	No		X	
JH3	Cell 4 top	No				X		Animal burrow	No		X	
HS1	Cell 7 top	No				X		Groundhog holes	No		X	
HS2	Cell 7 top west	No			X			Bare spot	No		X	
KV1	Cell 1 west	No					X	Instrumentation marker down	No		X	
CG1	Cell 2 N top 6:1	No			X			Woody vegetation	No	X		
AD1	Cell 2 6:1 north	No			X			Woody vegetation	No	X		
JF1	Cell 7 west 6:1	Yes					X	Soil separation anomaly – investigate further in March after snow cover is gone.	No			X
JF2	EP Cell 8	No			X			Woody vegetation – also secondary vegetation 75 feet north of flag	No		X	
JF3	EP Cell 7	No			X			Woody vegetation	No		X	
JF4	EP Cell 6	No			X			Woody vegetation	No		X	
JF5	EP Cell 6	No			X			Woody vegetation in ditch – marked on outside of ditch in rip-rap	No		X	
JF6	EP Cell 5	No			X			Woody vegetation – outside fence	No		X	
JF7	EP Cell 5	No			X			Woody vegetation – outside fence	No		X	
JF8	NP Cell 1	No			X			Woody vegetation – few evergreens 1 -2 feet tall	No		X	
JF9	NP Cell 1	No			X			Woody vegetation – in ditch	No		X	
JF10	NP Cell 1	No			X			Woody vegetation – patch approx. 20 foot radius	No		X	
JF11	NWP Cell 1	No			X			Woody vegetation – large patch in ditch between flags JF11A to JF11B	No		X	
JF12	WP Cell 5	No			X			Woody vegetation at fence	No		X	
JF13	WP between VH4 and 5	No					X	OSDF Perimeter fence repair (previous inspection item JF5) is temporary in nature.	No		X	
JF14	WP Cell 6	No			X			Woody vegetation at fence both inside and outside of fence	No		X	
JF15	WP VH 6	No				X		No recent groundhog activity (see previous inspection item JF8)	No			X
JF16	VH 6	No					X	There is a 4 inch diameter hole in the siding in the back side of the VH structure – the hole should be repaired to prevent rodent infestation of the valve house	No		X	
JF17	GIS structure outlet ditch between Cells 6 and 7	No					X	ILTS was cut when the ditch from the GIS pipe outlet to the perimeter fence was reworked in 2008. There needs to be additional measures to restrict the possibility of future use of the ILTS (previous inspection item JF9).	No		X	

**U.S. Department of Energy Office of Legacy Management**

**Fernald Preserve OSDF Walkdown Inspection (continued)**

Date \_\_\_\_\_ Inspector \_\_\_\_\_ Cell Cap/Area \_\_\_\_\_

JF18	WP Cell 8	No	X						Erosion greater than one foot. Grass is growing in erosion rill stopping progression of erosion. Be careful if repaired – buried pipe! (Previous inspection JF12)	No			X
JF19	Culvert pipes south of Cell 8	No					X		Three pipes contain minimal sediment (Based on visual observation due to ice on surface – previous inspection item JF16)	No		X	
JF20	EP Cell 5	No					X		Top of perimeter fence at barbed wire had been repaired (Previous inspection JF23)	No	X		
JF21	EP Cell 4	No	X						Erosion is occurring around the concrete of several perimeter fence posts. Even with the erosion, the posts remain relatively solid. (Previous inspection item JF25)	No			X

**Additional Notes**

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FERNALD PRESERVE MAINTENANCE AND REPAIR ACTION ITEMS  
JANUARY 2011 UPDATE

No.	Location	GPS?	Maintenance item identified	Date identified	Origin of Finding	Inspection Finding No.	Resolution	Date of resolution	Comments
233	Deer fence off south access road	No	Deer fence corner wire down	6/5/2008	June 2008 quarterly field walkdown	7			
633	Waste pits - north west	No	Cages are down	3/3/2009	March 2009 quarterly field walkdown	31			
646	Waste pits	No	Erosion matting rolls	3/3/2009	March 2009 quarterly field walkdown	44			
650	Waste pits - east	No	A lot of trash blown around	3/3/2009	March 2009 quarterly field walkdown	48			
687	Roads and parking areas	No	Paint is wearing in some areas	3/16/2009	March 2009 point-specific IC inspection	NA			
689	OSDF Cell 8 - Road	No	Debris	3/12/2009	March 2009 quarterly OSDF inspection	HS5			
694	East face cell 8 near top	No	Rock greater than 4-inches	3/12/2009	March 2009 quarterly OSDF inspection	JH1			
699	Grassy area south of cell 8	No	Debris at JF6A GT Debris - plastic 6 feet southwest , clay tile 6 feet southwest GT 3 feet southwest at JF6B	3/12/2009	March 2009 quarterly OSDF inspection	JF6			
728	North side of SWU slope	No	Concrete debris	6/9/2009	June 2009 quarterly field walkdown	15			
757	Former silos area	No	Wide erosion, partially vegetated	6/9/2009	June 2009 quarterly field walkdown	57			
772	North of active flyash	No	erosion	6/9/2009	June 2009 quarterly field walkdown	78			
780	OSDF Cell 7, east toe of slope	No	animal burrow	6/2/2009	June 2009 quarterly OSDF inspection	DB5			
782	North pines east	No	Limb across deer fence	9/2/2009	September 2009 quarterly field walkdown	9			
783	North pines west deer fence	No	Teasel, Canada thistle	9/2/2009	September 2009 quarterly field walkdown	10			
784	North pines west deer fence	No	Canada thistle	9/2/2009	September 2009 quarterly field walkdown	11			
788	South side of east deer fence	No	Break in deer fence with well defined deer path	9/2/2009	September 2009 quarterly field walkdown	22			
789	North pines	No	Thistle near Cultural Resource sign	9/2/2009	September 2009 quarterly field walkdown	23			
792	Pines along south access	No	Thistle	9/2/2009	September 2009 quarterly field walkdown	29			
799	East side of Lodge Pond	No	T-posts in rows - not sure of purpose.	9/2/2009	September 2009 quarterly field walkdown	44			

No.	Location	GPS?	Maintenance item identified	Date identified	Origin of Finding	Inspection Finding No.	Resolution	Date of resolution	Comments
800	North pines	No	Teasel	9/2/2009	September 2009 quarterly field walkdown	45			
801	North pines east deer fence	No	Teasel	9/2/2009	September 2009 quarterly field walkdown	46			
802	North pines east deer fence	No	Teasel and thistle	9/2/2009	September 2009 quarterly field walkdown	47			
803	A1PI wetland	No	Honeysuckle	9/2/2009	September 2009 quarterly field walkdown	50			
804	A1PI wetland	No	Honeysuckle	9/2/2009	September 2009 quarterly field walkdown	52			
805	A1PI wetland	No	Honeysuckle	9/2/2009	September 2009 quarterly field walkdown	53			
806	A1PI wetland - basin 4	No	Honeysuckle	9/2/2009	September 2009 quarterly field walkdown	54			
807	Summe gate south of A1PI	No	Honeysuckle	9/2/2009	September 2009 quarterly field walkdown	55			
808	North A1PI	No	Honeysuckle and teasel	9/2/2009	September 2009 quarterly field walkdown	57			
809	A1PI wetland - basin 2	No	Honeysuckle	9/2/2009	September 2009 quarterly field walkdown	59			
810	North and south Summe gates	No	Honeysuckle	9/2/2009	September 2009 quarterly field walkdown	60			
811	East perimeter	No	Honeysuckle	9/2/2009	September 2009 quarterly field walkdown	61			
817	Access V3	No	Move back/widen gate	10/1/2009	Casual observation	na			
818	Access V3A	No	Move back/widen gate	10/1/2009	Casual observation	na			
819	Access V4	No	Move back/widen gate	10/1/2009	Casual observation	na			
820	Access V6	No	Fill in ditch to allow for vehicle use	10/1/2009	Casual observation	na			
821	Access V7	No	Remove culvert and abandon access	10/1/2009	Casual observation	na			
835	GIS structure outlet ditch between cells 6 and 7	No	Pipes contain 4 inches of sediment, vegetation (cattails), and gravel has washed out from around pipe creating partial blockage.	9/10/2009	September 2009 OSDF Inspection	JF6			
846	A8P11 Parking lot	No	U-post at entrance needs removed	12/14/2009	December 2009 quarterly field walkdown	1			
856	Duke Energy substation	No	Honeysuckle all along bank east of Duke Energy substation	12/14/2009	December 2009 quarterly field walkdown	11			
857	Field north of Duke Energy substation on Paddys Run Road	No	Northwest corner of deer fence is damaged	12/14/2009	December 2009 quarterly field walkdown	12			

No.	Location	GPS?	Maintenance item identified	Date identified	Origin of Finding	Inspection Finding No.	Resolution	Date of resolution	Comments
859	A8P1/North woodlot	No	North and west side of deer fence damaged by downed trees and branches	12/14/2009	December 2009 quarterly field walkdown	14			
860	A8P1III-North	No	North deer fence needs repair at south end	12/14/2009	December 2009 quarterly field walkdown	15			
862	Field at Rainbow bridge	No	Honeysuckle	12/14/2009	December 2009 quarterly field walkdown	17			
863	Field at Rainbow bridge	No	Tree tubes need to be removed	12/14/2009	December 2009 quarterly field walkdown	18			
869	A8P1II	No	Wooden post	12/14/2009	December 2009 quarterly field walkdown	24			
871	A8P1III-North	No	Several sign posts need to be removed	12/14/2009	December 2009 quarterly field walkdown	26	Accessible posts removed	9/28/2010	
874	A8P1II	No	Missing sign	12/14/2009	December 2009 quarterly field walkdown	29	Signs replaced	9/28/2010	
875	A8P1III-North	No	Deer fence needs repair	12/14/2009	December 2009 quarterly field walkdown	30			
876	A8P1III-North	No	Deer fence needs repair	12/14/2009	December 2009 quarterly field walkdown	31			
877	A8P1III-North	No	South fence - deer fence needs repair	12/14/2009	December 2009 quarterly field walkdown	32			
881	Access point VQ	No	No signs	12/9/2009	December 2009 point-specific IC inspection	na			
892	Cell 6 east side	No	Small mammal colony	12/3/2009	December 2009 OSDF Inspection	HB5			
893	Cell 2 east side	No	Groundhog hole	12/3/2009	December 2009 OSDF Inspection	HB7			
894	Cell 1 northeast corner	No	Groundhog hole - dug up gravel	12/3/2009	December 2009 OSDF Inspection	HB8			
896	Cell 8 east side	No	clover, cool season grasses	12/3/2009	December 2009 OSDF Inspection	BL3			
913	West perimeter - fence between VH-4 and VH-5	No	Closer inspection of OSDF perimeter fence repair (previous inspection item JF4) reveals that the repair previously noted is temporary in nature.	12/3/2009	December 2009 OSDF Inspection	JF6			
919	South bank of Union Pond	No	Erosion rill	3/11/2010	March 2010 quarterly field walkdown	1			
921	South side of bank	No	Thistle	3/11/2010	March 2010 quarterly field walkdown	3			
922	West end of pond	No	Teasel	3/11/2010	March 2010 quarterly field walkdown	4			
923	West end of pond	No	Teasel	3/11/2010	March 2010 quarterly field walkdown	5			
929	Edge (west) of North Drainage Ditch	No	T-post	3/11/2010	March 2010 quarterly field walkdown	11			

No.	Location	GPS?	Maintenance item identified	Date identified	Origin of Finding	Inspection Finding No.	Resolution	Date of resolution	Comments
930	Edge of access road	No	Erosion	3/11/2010	March 2010 quarterly field walkdown	12			
931	Edge of road by CAWWT	No	Orange fence	3/11/2010	March 2010 quarterly field walkdown	13			
932	Southwest of Main Drainage Corridor outlet	No	Rutting	3/11/2010	March 2010 quarterly field walkdown	14			
933	Main Drainage Corridor	No	Erosion	3/11/2010	March 2010 quarterly field walkdown	15			
934	East of Swan Pond	No	Erosion	3/11/2010	March 2010 quarterly field walkdown	16			
935	Southeast of Union Pond	No	Erosion	3/11/2010	March 2010 quarterly field walkdown	17			
936	West of 5 Sycamore trees, northwest of 5 oak trees	No	Thistle	3/11/2010	March 2010 quarterly field walkdown	18			
939	South of Union Pond	No	Erosion greater than 1 foot	3/11/2010	March 2010 quarterly field walkdown	21			
940	East end of drain north of Angel Pond	No	Erosion	3/11/2010	March 2010 quarterly field walkdown	22			
941	North bank of east/west drain	No	Erosion	3/11/2010	March 2010 quarterly field walkdown	23			
943	East bank of drainage	No	Thistle	3/11/2010	March 2010 quarterly field walkdown	25			
946	Southwest corner of Swan Pond	No	Erosion	3/11/2010	March 2010 quarterly field walkdown	29			
949	Deer fence on east of Paddys Run on west edge of waste pits	No	Gate ripped down	3/11/2010	March 2010 quarterly field walkdown	32			
954	Along ridge	No	Thistle	3/11/2010	March 2010 quarterly field walkdown	37			
965	West of 3rd utility pole from the south end OSDF fence	No	Bricks and silt fence debris can be removed at top of east slope of ditch (previous inspection item JF3)	3/18/2010	March 2010 OSDF Inspection	JF8			
966	South end of west drainage at fence	No	Brush debris buildup in front of trash rack at south end of west ditch just inside south perimeter fence	3/18/2010	March 2010 OSDF Inspection	JF9			
969	Island in pond	No	Erosion and lack of vegetation	6/2/2010	June 2010 quarterly field walkdown	2			
972	On site substation deer fence	No	Thistle/teasel	6/2/2010	June 2010 quarterly field walkdown	5			
973	South field drainage	No	Bog stem bullrush	6/2/2010	June 2010 quarterly field walkdown	6			
974	South of Sycamore trail south of the Shingle Oak	No	Downed tree cage	6/2/2010	June 2010 quarterly field walkdown	7			
975	North of deer fence in SWU, west of trail	No	Black pipe	6/2/2010	June 2010 quarterly field walkdown	8			

No.	Location	GPS?	Maintenance item identified	Date identified	Origin of Finding	Inspection Finding No.	Resolution	Date of resolution	Comments
976	North of south pines deer fence near access road	No	Thistle	6/2/2010	June 2010 quarterly field walkdown	9			
981	Hillside north of SWU	No	Erosion	6/2/2010	June 2010 quarterly field walkdown	13			
982	West side of deer fence	No	Teasel and thistle	6/2/2010	June 2010 quarterly field walkdown	14			
983	North of former inactive flyash pile (slope of SWU)	No	Cedar tree choked by cage	6/2/2010	June 2010 quarterly field walkdown	15			
984	North of former inactive flyash pile (slope of SWU)	No	Debris – asphalt	6/2/2010	June 2010 quarterly field walkdown	16			
986	Near "salamander habitat"	No	Erosion	6/2/2010	June 2010 quarterly field walkdown	18			
989	North of silo ponds	No	Patchy vegetation	6/2/2010	June 2010 quarterly field walkdown	21			
992	Paddys Run – silos riprap	No	Reed canary grass	6/2/2010	June 2010 quarterly field walkdown	24			
994	SWU floodplain	No	Old cage needs removed	6/2/2010	June 2010 quarterly field walkdown	26			
996	SWRB southwest corner	No	Thistle patch	6/2/2010	June 2010 quarterly field walkdown	28			
999	Northeast of north silo pond	No	Erosion	6/2/2010	June 2010 quarterly field walkdown	31			
1002	South of Visitors Center parking lot in woods	No	Honeysuckle	6/2/2010	June 2010 quarterly field walkdown	34			
1004	Southeast of arsenic hot spot	No	Multiflora rose	6/2/2010	June 2010 quarterly field walkdown	36			
1006	South pines north of Sycamore trail	No	Honeysuckle all over	6/2/2010	June 2010 quarterly field walkdown	38			
1008	South pines along access road	No	Honeysuckle all along road	6/2/2010	June 2010 quarterly field walkdown	40			
1009	Drainage along access road along south pines	No	Bare area (no veg.)	6/2/2010	June 2010 quarterly field walkdown	41			
1010	South pines along access road	No	Honeysuckle	6/2/2010	June 2010 quarterly field walkdown	42			
1011	East of south pines, south of access road	No	Thistle	6/2/2010	June 2010 quarterly field walkdown	43			
1012	East edge of south pines deer fence	No	Thistle	6/2/2010	June 2010 quarterly field walkdown	44			
1013	South side of south pines deer fence	No	Honeysuckle	6/2/2010	June 2010 quarterly field walkdown	45			
1014	South side of south pines deer fence	No	Teasel	6/2/2010	June 2010 quarterly field walkdown	46			

No.	Location	GPS?	Maintenance item identified	Date identified	Origin of Finding	Inspection Finding No.	Resolution	Date of resolution	Comments
1020	Southeast of dance hall	No	Honeysuckle	6/2/2010	June 2010 quarterly field walkdown	52			
1022	Drainage west of northern most well in south field	No	Honeysuckle	6/2/2010	June 2010 quarterly field walkdown	54			
1023	East of radium hotspot	No	Thistle	6/2/2010	June 2010 quarterly field walkdown	55			
1024	Near valve house on access road north of SWRB	No	Thistle	6/2/2010	June 2010 quarterly field walkdown	56			
1025	Along access road	No	Teasel	6/2/2010	June 2010 quarterly field walkdown	57			
1026	Along access road	No	Honeysuckle	6/2/2010	June 2010 quarterly field walkdown	58			
1027	Along access road	No	Thistle	6/2/2010	June 2010 quarterly field walkdown	59			
1028	Cell 4, west toe	No	Buckthorn	6/8/2010	June 2010 OSDF Inspection	SB3			
1049	West 6:1 slope on Cell 7	No	Large bare area	9/1/2010	September 2010 OSDF Inspection	JC1			
1050	Center north slope Cell 1	No	Bare spot	9/1/2010	September 2010 OSDF Inspection	HS3			
1056	Cell 7/8	No	Flowering pear	9/1/2010	September 2010 OSDF Inspection	BL2			Could not locate in field
1058	Cell 1	No	Horsetail	9/1/2010	September 2010 OSDF Inspection	DB1			
1059	Cell 8	No	Several bare spots along toe on south/southwest side	9/1/2010	September 2010 OSDF Inspection	DB2			
1060	Cell 8/7	No	Plank on west side -- erosion at end	9/1/2010	September 2010 OSDF Inspection	DB4			
1061	East slope Cell 7	No	Bare area	9/1/2010	September 2010 OSDF Inspection	LH1			
1064	West (mid) 6:1 Cell 7/8	No	Bare spot	9/1/2010	September 2010 OSDF Inspection	JH2			
1071	Fence between VH-4 and 5	No	OSDF perimeter fence repair is temporary in nature. (previous finding # JF23)	9/1/2010	September 2010 OSDF Inspection	JF5			
1073	GIS structure outlet ditch between cells 6 and 7	No	ILTS was cut when the ditch from the GIS pipe outlets at the perimeter fence was reworked in 2008. There needs to be additional measures to restrict the possibility of future use of the ILTS	9/1/2010	September 2010 OSDF Inspection	JF9	"Abandoned in Place" stickers affixed to pipe outlet	October-10	
1076	Three culvert pipes south of Cell 8	No	West pipe contains 3 inches of sediment (2 inches in middle and east pipes)	9/1/2010	September 2010 OSDF Inspection	JF16			
1083	East perimeter east of cell 5	No	Top of perimeter fence at barbed wire is damaged	9/1/2010	September 2010 OSDF Inspection	JF23	Fence repaired	December-10	
1085	East perimeter fence at south half of cell 4	No	Erosion is occurring around the concrete of several perimeter fence posts.	9/1/2010	September 2010 OSDF Inspection	JF25			Even with the erosion, the posts remain relatively solid. Some wobble is occurring but this is most likely due to the dry conditions

No.	Location	GPS?	Maintenance item identified	Date identified	Origin of Finding	Inspection Finding No.	Resolution	Date of resolution	Comments
1090	Lodge pond basin – west	No	Downed cages	9/8/2010	September 2010 quarterly field walkdown	1			
1091	Lodge pond basin – center	No	Invasive Schoeneplectus	9/8/2010	September 2010 quarterly field walkdown	2			
1092	Lodge Pond savanna	No	Canada thistle	9/8/2010	September 2010 quarterly field walkdown	3			
1093	North pines deer fence	No	Hole in fence	9/8/2010	September 2010 quarterly field walkdown	4			
1094	North pines deer fence	No	Hole in fence	9/8/2010	September 2010 quarterly field walkdown	5	Fence repaired	12/30/2010	
1095	Lodge pond basin – south	No	Teasel	9/8/2010	September 2010 quarterly field walkdown	6			
1096	North pines east fence south side	No	Fence down (tree on fence)	9/8/2010	September 2010 quarterly field walkdown	7			
1097	North Bend prairie – east	No	Canada and musk thistle	9/8/2010	September 2010 quarterly field walkdown	8			
1098	North Bend prairie – middle	No	Musk thistle	9/8/2010	September 2010 quarterly field walkdown	9			
1099	North pines west deer fence south side	No	Cable on top of fence is down	9/8/2010	September 2010 quarterly field walkdown	10	No action necessary	12/30/2010	Cable was previously replaced - the observed cable is no longer needed
1100	Lodge pond basin – northeast	No	Bare area	9/8/2010	September 2010 quarterly field walkdown	11			
1101	Lodge pond basin – northeast	No	Erosion	9/8/2010	September 2010 quarterly field walkdown	12			
1102	Along access road	No	Thistle	9/8/2010	September 2010 quarterly field walkdown	13			
1103	Lodge pond basin – center	No	Fence baskets down	9/8/2010	September 2010 quarterly field walkdown	14			
1104	North pines along property line	No	Trash	9/8/2010	September 2010 quarterly field walkdown	15			
1105	NE of lodge pond basin near property line	No	Bare area	9/8/2010	September 2010 quarterly field walkdown	16			
1106	Near well across from OSDF mowed path	No	Thistle	9/8/2010	September 2010 quarterly field walkdown	17			
1107	Near "high voltage" station	No	Flowering pear	9/8/2010	September 2010 quarterly field walkdown	18			
1108	Across from Cell 5	No	Flowering pear (several flags – unlabeled)	9/8/2010	September 2010 quarterly field walkdown	19			
1109	Across from Cell 4	No	Honeysuckle and pear	9/8/2010	September 2010 quarterly field walkdown	20			
1110	Across from Cell 3	No	Honeysuckle and pear	9/8/2010	September 2010 quarterly field walkdown	21			

No.	Location	GPS?	Maintenance item identified	Date identified	Origin of Finding	Inspection Finding No.	Resolution	Date of resolution	Comments
1111	Near Summe's access gate	No	Narrow leaf cattail	9/8/2010	September 2010 quarterly field walkdown	22			
1112	AIPI SW of basin 4	No	Honeysuckle and pear	9/8/2010	September 2010 quarterly field walkdown	23			
1113	Across from Cell 1/2 boundary	No	Honeysuckle	9/8/2010	September 2010 quarterly field walkdown	24			
1114	AIPI between basins 3 and 4	No	Narrow leaf cattail	9/8/2010	September 2010 quarterly field walkdown	25			
1115	Swale in Basin 2	No	Narrow leaf cattail	9/8/2010	September 2010 quarterly field walkdown	26			
1116	Basin across from triangle	No	Honeysuckle, pear, crown vetch	9/8/2010	September 2010 quarterly field walkdown	28			
1117	Basin across from triangle	No	Honeysuckle, pear, crown vetch	9/8/2010	September 2010 quarterly field walkdown	29			
1118	Basin across from triangle	No	Pear, Honeysuckle	9/8/2010	September 2010 quarterly field walkdown	30			
1119	AIPI basin 6	No	Phragmites, Honeysuckle	9/8/2010	September 2010 quarterly field walkdown	31			
1120	AIPI basin 7	No	Honeysuckle	9/8/2010	September 2010 quarterly field walkdown	32	Cut honeysuckle and applied glyphosate herbicide to stumps	October-10	
1121	AIPI basin 8	No	Honeysuckle, Johnson grass	9/8/2010	September 2010 quarterly field walkdown	33	Cut honeysuckle and applied glyphosate herbicide to stumps	October-10	
1122	North pines along Rt. 126	No	Honeysuckle, Johnson grass, pear, thistle	9/8/2010	September 2010 quarterly field walkdown	34			
1123	Along property fence (across from Cell 7)	No	Multiflora rose	9/8/2010	September 2010 quarterly field walkdown	35			
1124	East property fence	No	Poison ivy all along fence	9/8/2010	September 2010 quarterly field walkdown	37			
1125	East side across from cell 4	No	Honeysuckle	9/8/2010	September 2010 quarterly field walkdown	38			
1126	East side across from cell 4	No	Multiflora rose	9/8/2010	September 2010 quarterly field walkdown	39			
1127	East side across from cell 3	No	Honeysuckle	9/8/2010	September 2010 quarterly field walkdown	40			
1128	East side across from cell 3	No	Honeysuckle and pear	9/8/2010	September 2010 quarterly field walkdown	41			
1129	AIPI southeast of basin 4	No	Honeysuckle and pear	9/8/2010	September 2010 quarterly field walkdown	42			
1130	AIPI Basins 3 and 2	No	Honeysuckle and pear	9/8/2010	September 2010 quarterly field walkdown	43			
1131	AIPI northeast of basin 2	No	Thistle	9/8/2010	September 2010 quarterly field walkdown	44			

No.	Location	GPS?	Maintenance item identified	Date identified	Origin of Finding	Inspection Finding No.	Resolution	Date of resolution	Comments
1132	AIPI Basin 6/5	No	Multiflora rose	9/8/2010	September 2010 quarterly field walkdown	45	Cut multiflora rose and applied glysohate herbicide to stumps	November-10	
1133	AIPI Basin 6 fenceline	No	Honeysuckle	9/8/2010	September 2010 quarterly field walkdown	46	Cut honeysuckle and applied glysohate herbicide to stumps	November-10	
1134	AIPI Basin 7	No	Thistle (a lot)	9/8/2010	September 2010 quarterly field walkdown	47			
1135	Pines near access road	No	Honeysuckle	9/8/2010	September 2010 quarterly field walkdown	48			
1136	North pines	No	Multiflora rose	9/8/2010	September 2010 quarterly field walkdown	49			
1137	Drain northwest of DO along road	No	Woody vegetation in drain	9/8/2010	September 2010 quarterly field walkdown	50			
1138	AIPI at north end of OSDF	No	Scattered thistle	9/8/2010	September 2010 quarterly field walkdown	51			
1139	North pines along access rd.	No	Honeysuckle	9/8/2010	September 2010 quarterly field walkdown	53			
1140	North pines along access rd.	No	Crown vetch, thistle, teasel	9/8/2010	September 2010 quarterly field walkdown	54			
1141	Perimeter sign S1		Sign leaning, perhaps hit with mower or vehicle	9/7/2010	September 2010 point-specific IC inspection	na			
1142	Perimeter sign S37		Sign is missing	9/7/2010	September 2010 point-specific IC inspection	na	Signs replaced	9/28/2010	Similar to Finding No. 874
1143	Trestle		Vines growing all over west end of fence	9/7/2010	September 2010 point-specific IC inspection	na			
1144	Interior vehicle access VR		Attachment broken	9/7/2010	September 2010 point-specific IC inspection	na			Temporarily repaired
1145	Duke substation	no	Debris	12/6/2010	December 2010 quarterly field walkdown	1			
1146	Duke substation	no	Bluebird box off post	12/6/2010	December 2010 quarterly field walkdown	2			
1147	A8P111-N, south deer fence	no	North side of fence down	12/6/2010	December 2010 quarterly field walkdown	3			
1148	A8P111-N, south deer fence	no	East gate open	12/6/2010	December 2010 quarterly field walkdown	4			
1149	A8P111-N, south deer fence	no	South end of fence down	12/6/2010	December 2010 quarterly field walkdown	5			
1150	A8P111-N, south deer fence	no	West side of fence down	12/6/2010	December 2010 quarterly field walkdown	6			
1151	A8P111-N, south deer fence	no	West side of fence down	12/6/2010	December 2010 quarterly field walkdown	7			
1152	A8P111-N, north deer fence	no	West side of fence down	12/6/2010	December 2010 quarterly field walkdown	8			

No.	Location	GPS?	Maintenance item identified	Date identified	Origin of Finding	Inspection Finding No.	Resolution	Date of resolution	Comments
1153	Field north of Duke substation	no	Debris (red clay/brick)	12/6/2010	December 2010 quarterly field walkdown	9			
1154	A8PIII, south deer fence	no	Southwest corner down	12/6/2010	December 2010 quarterly field walkdown	10			
1155	Deer fence at rainbow bridge	no	Tree cages need removed. Limbs down on east side of fence.	12/6/2010	December 2010 quarterly field walkdown	11			
1156	Deer fence at rainbow bridge	no	Tree across fence	12/6/2010	December 2010 quarterly field walkdown	12			
1157	A8PIII-N, north deer fence	no	East side has holes and the fence is slipping down poles	12/6/2010	December 2010 quarterly field walkdown	13			
1158	A6PI deer fence	no	West end fence is down	12/6/2010	December 2010 quarterly field walkdown	14			
1159	A6PI deer fence	no	Tree on fence on north side	12/6/2010	December 2010 quarterly field walkdown	15			
1160	A6PI deer fence	no	Hole in north side	12/6/2010	December 2010 quarterly field walkdown	16			
1161	Perimeter sign S12	no	Sign is leaning	12/1/2010	December 2010 point-specific IC inspection	na			
1162	Perimeter sign S31	no	Sign is missing	12/1/2010	December 2010 point-specific IC inspection	na			
1163	Cell 1 west toe	no	Callery pear	12/7/2010	December 2010 OSDF Inspection	SB1			
1164	Cell 1 NE comer	no	2 holes/openings	12/7/2010	December 2010 OSDF Inspection	KP1			
1165	Cell 3 west 6:1	no	1 hole/opening	12/7/2010	December 2010 OSDF Inspection	KP2			
1166	Cell 4 west 6:1	no	Mound/multiple openings	12/7/2010	December 2010 OSDF Inspection	KP3			
1167	NE Cell 1	no	Woody vegetation	12/7/2010	December 2010 OSDF Inspection	JH1			
1168	West Cell 2 6:1	no	Woody vegetation	12/7/2010	December 2010 OSDF Inspection	JH2			
1169	Cell 4 top	no	Animal burrow	12/7/2010	December 2010 OSDF Inspection	JH3			
1170	Cell 7 top	no	Groundhog holes	12/7/2010	December 2010 OSDF Inspection	HS1			
1171	Cell 7 top west	no	Bare spot	12/7/2010	December 2010 OSDF Inspection	HS2			
1172	Cell 1 west	no	Instrumentation marker down	12/7/2010	December 2010 OSDF Inspection	KV1			
1173	Cell 2 N top 6:1	no	Woody vegetation	12/7/2010	December 2010 OSDF Inspection	CG1			

No.	Location	GPS?	Maintenance item identified	Date identified	Origin of Finding	Inspection Finding No.	Resolution	Date of resolution	Comments
1174	Cell 2 6:1 north	no	Woody vegetation	12/7/2010	December 2010 OSDF Inspection	AD1			
1175	EP Cell 8	no	Woody vegetation – also secondary vegetation 75 feet north of flag	12/7/2010	December 2010 OSDF Inspection	JF2			
1176	EP Cell 7	no	Woody vegetation	12/7/2010	December 2010 OSDF Inspection	JF3			
1177	EP Cell 6	no	Woody vegetation	12/7/2010	December 2010 OSDF Inspection	JF4			
1178	EP Cell 6	no	Woody vegetation in ditch – marked on outside of ditch in rip-rap	12/7/2010	December 2010 OSDF Inspection	JF5			
1179	EP Cell 5	no	Woody vegetation – outside fence	12/7/2010	December 2010 OSDF Inspection	JF6			
1180	EP Cell 5	no	Woody vegetation – outside fence	12/7/2010	December 2010 OSDF Inspection	JF7			
1181	NP Cell 1	no	Woody vegetation – few evergreens 1 -2 feet tall	12/7/2010	December 2010 OSDF Inspection	JF8			
1182	NP Cell 1	no	Woody vegetation – in ditch	12/7/2010	December 2010 OSDF Inspection	JF9			
1183	NP Cell 1	no	Woody vegetation – patch approx. 20 foot radius	12/7/2010	December 2010 OSDF Inspection	JF10			
1184	NWP Cell 1	no	Woody vegetation – large patch in ditch between flags JF11A to JF11B	12/7/2010	December 2010 OSDF - Inspection	JF11			
1185	WP Cell 5	no	Woody vegetation at fence	12/7/2010	December 2010 OSDF Inspection	JF12			
1186	WP between VH4 and 5	no	OSDF Perimeter fence repair (previous inspection item JF5) is temporary in nature.	12/7/2010	December 2010 OSDF Inspection	JF13			
1187	WP Cell 6	no	Woody vegetation at fence both inside and outside of fence	12/7/2010	December 2010 OSDF Inspection	JF14			
1188	WP VH 6	no	No recent groundhog activity (see previous inspection item JF8)	12/7/2010	December 2010 OSDF Inspection	JF15			
1189	VH 6	no	There is a 4 inch diameter hole in the siding in the back side of the VH structure – the hole should be repaired to prevent rodent infestation of the valve house	12/7/2010	December 2010 OSDF Inspection	JF16			
1190	GIS structure outlet ditch between Cells 6 and 7	no	ILTS was cut when the ditch from the GIS pipe outlet to the perimeter fence was reworked in 2008. There needs to be additional measures to restrict the possibility of future use of the ILTS (previous inspection item JF9).	12/7/2010	December 2010 OSDF Inspection	JF17			
1191	WP Cell 8	no	Erosion greater than one foot. Grass is growing in erosion rill stopping progression of erosion. Be careful if repaired – buried pipe! (Previous inspection JF12)	12/7/2010	December 2010 OSDF Inspection	JF18			
1192	Culvert pipes south of Cell 8	no	Three pipes contain minimal sediment (Based on visual observation due to ice on surface – previous inspection item JF16)	12/7/2010	December 2010 OSDF Inspection	JF19			
1193	EP Cell 4	no	Erosion is occurring around the concrete of several perimeter fence posts. Even with the erosion, the posts remain relatively solid. (Previous inspection item JF25)	12/7/2010	December 2010 OSDF Inspection	JF21			

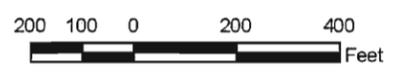
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**Legend**

-  Building
-  Fernald Preserve Boundary
-  Fence
-  OSDF Final Cover Outline
-  Road-Paved
-  Road-gravel



**Fernald Preserve  
OSDF (On-Site Disposal Facility)**

**December 2010 Inspection Findings**

- **Previous Findings Requiring Maintenance or Follow-up**