



established 1959

January 30, 2008

Task Order ST08-02-1-5-506
Control Number 1000-T08-0319

Ms. Jane Powell
Office of Legacy Management
U. S. Department of Energy
10995 Hamilton-Cleves Hwy.
Harrison, Ohio 45030

Dear Ms. Powell:

SUBJECT: Contract No. DE-AC01-02GJ79491, Stoller
Task Order Number ST08-02-1-5-506, LM Fernald LTS&M
Transmittal of the December 2007 Fernald Site Inspection Forms

The purpose of this letter is to transmit the completed forms for the December 2007 Fernald Site quarterly inspection. The December 2007 inspection was the fourth formal site inspection conducted at Fernald as directed by the Comprehensive Legacy Management and Institutional Controls Plan (LMICP 2006). The inspection took place on December 4, 2007. It was conducted with participation from S.M. Stoller, the Ohio Environmental Protection Agency (OEPA), and Tetra Tech. Note that the On-site Disposal Facility (OSDF) cap has a separate inspection and reporting process.

The December 2007 site inspection is the first conducted pursuant to the revised inspection approach that was proposed as part of the draft 2008 Legacy Management and Institutional Controls Plan (LMICP). A revised approach was originally presented in the draft LMICP that was submitted in October 2007. Subsequent discussions with OEPA resulted in a revised inspection proposal that was submitted on December 19, 2007. The proposal expanded the use of field forms and enhanced the tracking of follow-up actions. Where applicable, comments received on this proposal were incorporated into the attached forms. Additional comments will be addressed in the revised LMICP.

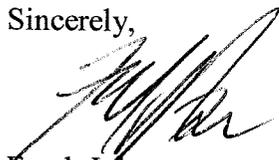
In accordance with the revised approach, a field walk-down was conducted across the North Woodlot and the west side of Paddys Run in its entirety. Findings from this walk-down are documented on the attached Fernald Preserve Field Walk-down Inspection Form. In addition to the field walk-down, the revised approach calls for a number of specific institutional controls to be inspected as well. Findings from this effort are documented on the attached Fernald Preserve Institutional Controls Inspection Form and associated figure.

As stated above, a key component of the revised inspection approach is the documentation of follow-up activities. Findings from site inspections, OSDF inspections, and observations from Fernald Preserve personnel during day to day operations will be entered into the attached Fernald Preserve Maintenance and Repair Action Items. It is anticipated that this form will be updated and submitted on a regular basis, in advance of the monthly agency conference call.

Ms. Jane Powell
Control Number 1000-T08-0319
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Upon your concurrence, please forward to EPA, OEPA, and the remainder of the inspection team. A draft transmittal letter is enclosed. If you have any questions or require additional information, please contact John Homer at 513-648-7519.

Sincerely,



Frank Johnston
Fernald Site Project Manager

FLJ/LM:dsm

Enclosure

cc: With enclosure
John Boylan, Stoller
Dave Hinaman, Stoller
John Homer, Stoller
Timothy Jones, DOE-EMCBC
Lisa McHenry, Stoller
Ed Skintik, DOE-EMCBC
AR Coordinator, Stoller (Thru W. Sumner - (2 copies)
Project File FER 700.05(A) (Thru W. Sumner)

Without enclosure
Angela Cooney, DOE-EMCBC
Johnny Reising, DOE-EMCBC
Correspondence Control File (Thru D. Crawford/C. Weston)



Department of Energy
Office of Legacy Management

January 31, 2008

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 2007 Fernald Site Inspection Checklist

The purpose of this letter is to transmit the completed forms for the December 2007 Fernald Site quarterly inspection. The December 2007 inspection was the fourth formal site inspection conducted at Fernald as directed by the Comprehensive Legacy Management and Institutional Controls Plan (LMICP 2006). The inspection took place on December 4, 2007. It was conducted with participation from S.M. Stoller, the Ohio Environmental Protection Agency (OEPA), and Tetra Tech. Note that the On-site Disposal Facility (OSDF) cap has a separate inspection and reporting process.

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In accordance with the revised approach, a field walk-down was conducted across the North Woodlot and the west side of Paddy's Run in its entirety. Findings from this walk-down are documented on the attached Fernald Preserve Field Walk-down Inspection Form. In addition to the field walk-down, the revised approach calls for a number of specific institutional controls to be inspected as well. Findings from this effort are documented on the attached Fernald Preserve Institutional Controls Inspection Form and associated figure.

2597 B 3/4 Road, Grand Junction, CO 81503

626 Cochran's Mill Road, P.O. Box 10940, Pittsburgh, PA 15236

11025 Dover St., Suite 1000, Westminster, CO 80021

955 Mound Road, Miamisburg, OH 45342

REPLY TO: Harrison Office

3610 Collins Ferry Road, P.O. Box 880, Morgantown, WV 26507

1000 Independence Ave., S.W., Washington, DC 20585

10995 Hamilton-Cleves Highway, Harrison, OH 45030

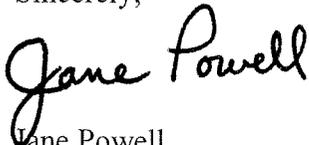
232 Energy Way, N. Las Vegas, NV 89030

Mr. Timothy Fischer
Mr. Tom Schneider
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If you have any questions or require additional information, please call me at 513-648-3148.

Sincerely,



Jane Powell
Fernald Site Manager
DOE-LM-20.1

Enclosure

cc w/ enclosure:

M. Cullerton, Tetra Tech.
M. Murphy, USEPA-V, A-18J
J. Reising, DOE-EM
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:

J. Homer, Stoller
F. Johnston, Stoller
L. McHenry, Stoller
T. Pauling, DOE-LM-20.1 (e)

FERNALD PRESERVE FIELD WALKDOWN INSPECTION FORMInspector: Combined group
findingsDate: 12-4-07Area: North Woodlot and Paddys Run West Sheet No. 1 of 1

No.	Location (use map whenever possible)	GPS?	Type of Finding (see definitions back page)				Description	Photo? (file No.)	Followup		
			Unauth. Use	Disturbance	Vegetation	Other			Corrected	Maint. Required	Cont. Observation
1	Just west of gravel road, at bend by Neiman's property	no	X					X			
2	Just west of culvert that goes under gravel road, along north property line	no	X					X			
3	Various locations along north fenceline	no				X	Some "No Trespassing" signs are damaged or down		X		
4	Ecological Restoration Park	no	X				Trash is being dumped		X		
5	Oxbow Area, at a sycamore in the old Paddys Run streambed	no				X	Possible old laboratory bottle		X		
6	Old North Access Road	no				X	Bolt lying in road		X		

No.	Location (use map whenever possible)	GPS?	Type of Finding (see definitions back page)				Description	Photo? (file No.)	Followup		
			Unauth. Use	Disturbance	Vegetation	Other			Corrected	Maint. Required	Cont. Observation
7	A6PI, north of chain-link fence, inside deer fence	no				X			X		
8	A6PI, inside deer fence	no				X			X		
9	North woodlot, along south road	no		X						X	
10	North woodlot, east side by road	no				X			X		
11	North woodlot deer fence	no		X					X		
12	North woodlot, along south road	no				X			X		
13	Paddys Run west, in trees by road	no				X			X		
14	Paddys Run west, at stand of trees north of substation	no				X			X		
15	North of Ecological Restoration Park	no		X					X		

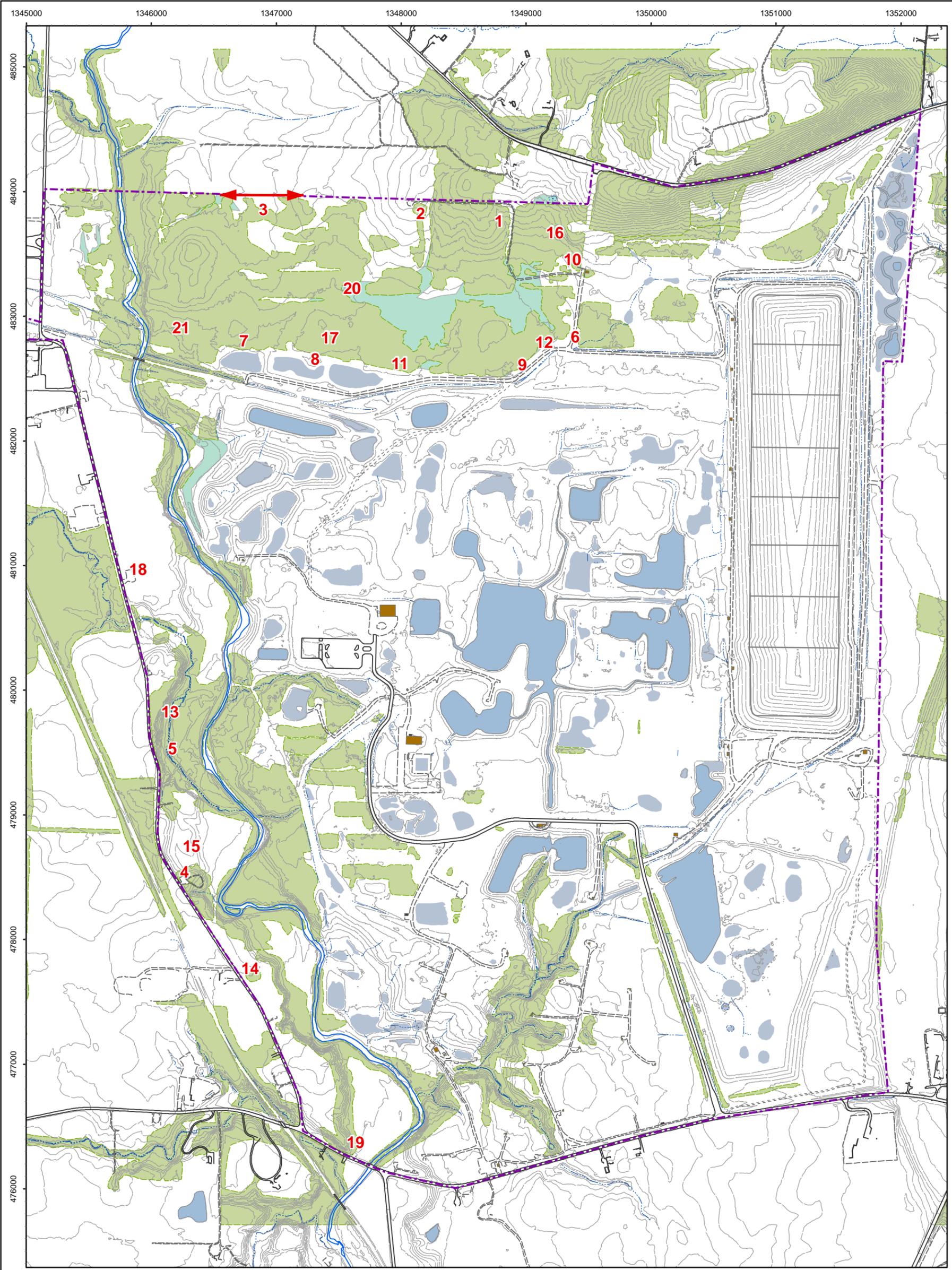
No.	Location (use map whenever possible)	GPS?	Type of Finding (see definitions back page)				Description	Photo? (file No.)	Followup		
			Unauth. Use	Disturbance	Vegetation	Other			Corrected	Maint. Required	Cont. Observation
16	North woodlot, south of Neiman's barn	yes				X	Brick		X		
17	A6PI chain link fence	no				X	Take down "No Trespassing" signs		X		
18	Paddys Run west, south of prairie area	no				X	Roll of welded wire fence		X		
19	Fence line along Willey Road	no				X	"No Trespassing" sign down		X		
20	North woodlot	no	X				Deer stand discovered in tree	X		X	
21	Forest Demo Project	no			X		Tree tubes need to be removed		X		

Additional Notes

1. Observed locations and determined that they were not campfires. No further action needed.

2. The fence does not provide any security function and would have been removed but for the adjacent landowner's request.

It is their responsibility to repair if so desired.



- Legend**
- - - Fernald Preserve Boundary
 - Building/Well House
 - Creek
 - - - Intermittent Stream
 - Treeline
 - Open Water
 - Wetland
 - Jurisdictional Wetland Area



FERNALD PRESERVE DECEMBER 2007
FIELD WALKDOWN FINDINGS

FERNALD PRESERVE INSTITUTIONAL CONTROL INSPECTION FORM

Date: 12-5-07 to 1-15-08

Inspector: John Homer, Lisa McHenry

Area: Sitewide

Sheet No. 1 of 1

Institutional Control	Type of Finding (see definitions page)				Description	Photo? (file No.)	Followup		
	Signage	Barrier	Groundskpng	Other			Corrected	Maint. Required	Cont. Observation
Access Points									
South Access					No issues				
North Access					No issues				
Eco Park	X				"Authorized Vehicles Only" sign was partially down		X		
			X		Some dumped trash (same finding as Field Walkdown No. 4)		X		
Forest Demo					No issues				
Perimeter Auth. Veh. Access									
Former rail line		X			One post knocked down. Discussing new ways of preventing access			X	
V1 - South Field entrance	X				Sign down		X		
Perimeter Signage									
various locations	X				Signs broken in several areas (see Note 1 below)				
Fencing									
CAWWT									
OSDF		X			Some findings observed during OSDF inspection - details provided in OSDF Insp. Report			X	
Utility					No issues				

	Type of Finding (see definitions page)				Description	Photo? (file No.)	Followup		
	Signage	Barrier	Groundskpng	Other			Corrected	Maint. Required	Cont. Observation
Institutional Control									
Trestle					No issues				
Interior Auth. Veh. Access									
					No issues				
Buildings and Structures									
Communication Building					No issues				
DO Building					No issues				
Restoration Storage Shed					No issues				
Other IC									
60-in. Culvert					Small amount of brush in front of grate - flow is not impeded at this time				X
Uncertified Areas					No issues				
Roads and Parking Areas					No issues				
Trails and Overlooks					na				

Additional Notes

1. New perimeter signs are in the process of being developed. Once they are procured, the new signs will be more securely fastened and should be more durable.

The post locations will be set back from the perimeter fence (where applicable) and they will be numbered, so that each specific sign can be observed and repaired.

Approximately 90 new signs will be installed.

FERNALD PRESERVE MAINTENANCE AND REPAIR ACTION ITEMS

No.	Location	GPS?	Maintenance item identified	Date identified	Origin of Finding	Inspection Finding No.	Resolution	Date of resolution	Comments
1	North woodlot, just west of gravel road, at bend by Neiman's property	no	Potential campfire site at two locations	12/4/2007	December 2007quarterly field walkdown	1	Observed locations and determined that they were not campfires, but rather small piles of rotting wood - no action required	1/7/2008	
2	North woodlot, just west of culvert under gravel road, along north property line	no	Fence is down	12/4/2007	December 2007quarterly field walkdown	2	No action required	1/7/2008	The fence does not provide any security function and would have been removed but for the property owner's request. It is their responsibility to repair.
3	Various locations along north fenceline	no	Some "No Trespassing" signs are damaged or down	12/4/2007	December 2007quarterly field walkdown	3			Developing new sign locations and installation technique
4	Eco Park	no	Trash dumped	12/4/2007	December 2007quarterly field walkdown	4	Cleared trash and notified authorities. Additional cinder blocks removed following rad survey.	1/7/2008	Original pile of trash (i.e. shingles) was removed and authorities contacted on 12/5/07.
5	Oxbow Area, in sycamore tree	no	Old broken jar - possibly lab bottle	12/4/2007	December 2007quarterly field walkdown	5	Free released per rad survey - disposed of jar	1/7/2008	
6	Old North Access Road	no	Bolt lying in road	12/4/2007	December 2007quarterly field walkdown	6	Free released per rad survey - disposed of bolt	1/7/2008	
7	A6PI, north of chain link fence, inside deer fence	no	Large roll of barbed wire	12/4/2007	December 2007quarterly field walkdown	7			Unable to locate
8	A6PI, inside deer fence	no	Deer cages need to be removed	12/4/2007	December 2007quarterly field walkdown	8			
9	North woodlot, along south road	no	Big hole present	12/4/2007	December 2007quarterly field walkdown	9			
10	North woodlot, east side by road	no	Pull old fence	12/4/2007	December 2007quarterly field walkdown	10			
11	North woodlot deer fence	no	Tree down across deer fence - fence needs repair on east side as well	12/4/2007	December 2007quarterly field walkdown	11			
12	North woodlot, along south road	no	Construction fencing, silt fence, and yellow iron plate present	12/4/2007	December 2007quarterly field walkdown	12	Iron plate free released per rad survey - disposed of all materials	1/7/2008	
13	Paddys Run west, in trees by road	no	Two bricks	12/4/2007	December 2007quarterly field walkdown	13	Free released per rad survey - kept bricks because they look very old	1/7/2008	
14	Paddys Run west, at stand of trees north of substation	no	Piece of brick	12/4/2007	December 2007quarterly field walkdown	14	Free released per rad survey - disposed of brick	1/7/2008	
15	North of Ecological Restoration Park	no	Bird box down	12/4/2007	December 2007quarterly field walkdown	15			
16	North woodlot, south of Neiman's barn	no	Brick	12/4/2007	December 2007quarterly field walkdown	16	Free released per rad survey - disposed of brick	1/7/2008	
17	A6PI chain link fence	no	Take down "No Trespassing" signs	12/4/2007	December 2007quarterly field walkdown	17			
18	Paddys Run west, south of prairie area	no	Roll of welded wire fence	12/4/2007	December 2007quarterly field walkdown	18			Unable to locate
19	Fence line along Willey Road	no	"No Trespassing" sign down	12/4/2007	December 2007quarterly field walkdown	19			Developing new sign locations and installation technique

No.	Location	GPS?	Maintenance item identified	Date identified	Origin of Finding	Inspection Finding No.	Resolution	Date of resolution	Comments
20	North woodlot	no	Deer stand discovered in tree	12/4/2007	December 2007 quarterly field walkdown	20	Notified Butler County Wildlife Officer, who instructed to keep stand in place for monitoring		After several weeks of inactivity, the Wildlife Officer was notified and the stand was removed
21	Forest Demo Project	no	Tree tubes need to be removed	12/4/2007	December 2007 quarterly field walkdown	21			
22	OSDF cell 5	no	Groundhog hole needs to be filled	12/19/2007	December 2007 quarterly OSDF inspection	MV-1			
23	OSDF cell 6	no	Groundhog hole needs to be filled	12/19/2007	December 2007 quarterly OSDF inspection	MV-2	Filled hole with existing soil	1/18/2008	
24	OSDF Cell 1	no	Buried rock too large to pick up	12/19/2007	December 2007 quarterly OSDF inspection	KP-1			
25	OSDF Cell 1	no	Canada thistle presence	12/19/2007	December 2007 quarterly OSDF inspection	GL-1			Included in SOW for herbicide subcontractor. Planned for spring application.
26	OSDF Cell 5	no	Canada thistle presence	12/19/2007	December 2007 quarterly OSDF inspection	GL-2			Included in SOW for herbicide subcontractor. Planned for spring application.
26	OSDF cell 8	no	Erosion rill	12/19/2007	December 2007 quarterly OSDF inspection	GL-3			
27	OSDF cell 8	no	Erosion under matting	12/19/2007	December 2007 quarterly OSDF inspection	JW-3			
28	OSDF cell 8	no	Erosion under matting	12/19/2007	December 2007 quarterly OSDF inspection	JW-4			
29	OSDF cell 7	no	Groundhog hole needs to be filled	12/19/2007	December 2007 quarterly OSDF inspection	JW-5	Filled hole with existing soil	1/18/2008	
30	OSDF cell 5 - 6	yes	Sparse vegetation	12/19/2007	December 2007 quarterly OSDF inspection	HB-1			Evaluate need for re-seeding/interseeding in spring.
31	OSDF cell 8	yes	Sparse vegetation	12/19/2007	December 2007 quarterly OSDF inspection	HB-2			Evaluate need for re-seeding/interseeding in spring.
32	OSDF cell 7 - 8	yes	Sparse vegetation	12/19/2007	December 2007 quarterly OSDF inspection	HB-3			Evaluate need for re-seeding/interseeding in spring.
33	OSDF cell 6	no	Multiple animal burrows	12/19/2007	December 2007 quarterly OSDF inspection	HB-4	Filled hole with existing soil	1/18/2008	
34	OSDF cell 1	no	Sparse vegetation	12/19/2007	December 2007 quarterly OSDF inspection	HB-5			Herbicide application affected cool season grasses reseeded in Oct. 2007. Evaluate establishment in spring.
35	OSDF cell 5 - 6	yes	Sparse vegetation	12/19/2007	December 2007 quarterly OSDF inspection	JH-1			Evaluate need for re-seeding/interseeding in spring.
36	OSDF cell 8	yes	Sparse vegetation	12/19/2007	December 2007 quarterly OSDF inspection	JH-2			Evaluate need for re-seeding/interseeding in spring.
37	OSDF cell 8	yes	Depression	12/19/2007	December 2007 quarterly OSDF inspection	JH-3			Observe during next quarterly inspection.

No.	Location	GPS?	Maintenance item identified	Date identified	Origin of Finding	Inspection Finding No.	Resolution	Date of resolution	Comments
38	OSDF cell 7	no	Animal burrow	12/19/2007	December 2007 quarterly OSDF inspection	JH-4	Filled hole with existing soil	1/18/2008	
39	OSDF cell 2	no	Canada thistle prescence	12/19/2007	December 2007 quarterly OSDF inspection	JH-5			Included in SOW for herbicide subcontractor. Planned for spring application.
40	OSDF cell 1 - east face	yes	Depression on corner	12/19/2007	December 2007 quarterly OSDF inspection	JH-6			Observe during next quarterly inspection.
41	OSDF cell 7	yes	Two foot diameter area 6 inches deep localized settlement.	12/19/2007	December 2007 quarterly OSDF inspection	1			Observe during next quarterly inspection.
42	OSDF cell 8	yes	Sparse vegetation	12/19/2007	December 2007 quarterly OSDF inspection	2			Observe during next quarterly inspection.
43	OSDF cell 7	no	Groundhog hole needs to be filled	12/19/2007	December 2007 quarterly OSDF inspection	3	Filled hole with existing soil	1/18/2008	
44	OSDF cell 4	no	Canada thistle prescence	12/19/2007	December 2007 quarterly OSDF inspection	4			Included in SOW for herbicide subcontractor. Planned for spring application.
45	OSDF cell 4	no	Groundhog hole needs to be filled	12/19/2007	December 2007 quarterly OSDF inspection	5	Filled hole with existing soil	1/18/2008	
46	OSDF east perimeter	no	Woody vegetation east side of drainage channel - 3-foot red leafed tree	12/19/2007	December 2007 quarterly OSDF inspection	6			Included in SOW for herbicide subcontractor. Planned for spring application.
47	OSDF east perimeter	no	Erosion around one fence post concrete base	12/19/2007	December 2007 quarterly OSDF inspection	7			
48	OSDF east perimeter	no	Erosion around approx. 12 fence post concrete bases. Bases sitting on a ridge between road ditch and swale.	12/19/2007	December 2007 quarterly OSDF inspection	8			
49	OSDF east perimeter	no	Erosion around one fence post concrete base	12/19/2007	December 2007 quarterly OSDF inspection	9			
50	OSDF east perimeter	no	Erosion around one fence post concrete base	12/19/2007	December 2007 quarterly OSDF inspection	10			
51	OSDF east perimeter	no	Canada thistle prescence	12/19/2007	December 2007 quarterly OSDF inspection	11			Included in SOW for herbicide subcontractor. Planned for spring application.
52	OSDF south perimeter - drainage discharge pipes	no	Evaluation of sediment buildup	12/19/2007	December 2007 quarterly OSDF inspection	12	No action required - continue observation	12/19/2007	Sediment measured at pipe inlet: west-3 inches, middle-4 inches, east-1 inch. Good - no action necessary
53	OSDF west perimeter	no	Minor erosion	12/19/2007	December 2007 quarterly OSDF inspection	13	No action required - continue observation		Observe during next quarterly inspection.
54	OSDF west perimeter	no	Remove silt fence	12/19/2007	December 2007 quarterly OSDF inspection	14			
55	OSDF west perimeter	no	Erosion repair required	12/19/2007	December 2007 quarterly OSDF inspection	15			
56	OSDF west perimeter	no	Rutting repair required	12/19/2007	December 2007 quarterly OSDF inspection	16			

No.	Location	GPS?	Maintenance item identified	Date identified	Origin of Finding	Inspection Finding No.	Resolution	Date of resolution	Comments
57	OSDF west perimeter	no	Debris present (steel straps)	12/19/2007	December 2007 quarterly OSDF inspection	17			
58	OSDF west perimeter	no	Erosion greater than 1 foot occurring under and west of perimeter fence. Erosion is occurring near fence post.	12/19/2007	December 2007 quarterly OSDF inspection	18			
59	OSDF west perimeter	no	Erosion occurring one foot in depth at fence post.	12/19/2007	December 2007 quarterly OSDF inspection	19			
60	OSDF west perimeter	no	Woody vegetation over Reinforced Concrete Pipe needs killed. It is currently trimmed at ground level.	12/19/2007	December 2007 quarterly OSDF inspection	20			
61	OSDF west perimeter	no	Damaged Downspout	12/19/2007	December 2007 quarterly OSDF inspection	21			
62	OSDF cell 7	yes	Localized depression due to small erosion rills. Add. soil not req., but overseed to prevent additional loss of topsoil.	12/19/2007	December 2007 quarterly OSDF inspection	22			Additional soil is not required, however, the area should be overseeded to prevent additional loss of topsoil. Observe during next quarterly inspection.
63	Eco Park	no	"Authorized Vehicles Only" sign partially down	12/28/2007	December 2007 quarterly Point-Specific IC inspection	na	Re-hung sign with plastic zip tie	1/7/2008	
64	Former rail line footprint, by road	no	One wooden post knocked down by vehicle	12/31/2007	December 2007 quarterly Point-Specific IC inspection	na			Posts were installed to prevent vehicle crossing following consultation with ODOT. Discussing additional options with them.
65	Access point V1	no	Sign down	1/15/2008	December 2007 quarterly Point-Specific IC inspection	na	Re-hung sign with metal wire	1/15/2008	
66	Various locations along site perimeter	no	Signs down	12/28/2007	December 2007 quarterly Point-Specific IC inspection	na			See Item No. 1 above.
67	60-in. culvert, north side	no	Small amount of brush in front of grate	1/15/2008	December 2007 quarterly Point-Specific IC inspection	na			Flow is not impeded at this time.