

Quarterly Site Inspection Report for the Fernald Preserve, Ohio, Site, September 2020

September 2020



U.S. DEPARTMENT OF
ENERGY

Legacy
Management

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Abbreviations

DOE	U.S. Department of Energy
LMICP	Legacy Management and Institutional Controls Plan
Ohio EPA	Ohio Environmental Protection Agency
OSDF	On-Site Disposal Facility
PSIC	point-specific institutional control

1.0 Introduction

The U.S. Department of Energy (DOE) Office of Legacy Management manages the Fernald Preserve, Ohio, Site. This responsibility includes performing quarterly inspections of the site as directed by the *Comprehensive Legacy Management and Institutional Controls Plan* (LMS/FER/S03496), hereafter referred to as the Legacy Management and Institutional Controls Plan (LMICP). This document summarizes the results of the September 2020 inspections. The report also fulfills the reporting requirements specified in the Environmental Covenant, which is Appendix D of the *Consent Decree Resolving Ohio's Natural Resource Damage Claim Against DOE*. The inspections confirm that the activity and use limitations for the Fernald Preserve remain in place and are being complied with.

Inspections conducted at the site include On-Site Disposal Facility (OSDF) inspections, point-specific institutional control (PSIC) site inspections, and field walkdown site inspections. Field walkdown site inspections are conducted annually and scheduled during the dormant vegetation months of November through April, while OSDF and PSIC inspections are typically conducted every 3 months. Additional field walkdowns take place following prescribed burns.

Inspections included in this report are listed in Table 1. They were conducted by DOE and Navarro Research and Engineering, Inc. (Navarro), the contractor for Legacy Management Support. The Ohio Environmental Protection Agency (Ohio EPA) participated in the inspection virtually. Cellular phones with video communication programs were used to enable an Ohio EPA representative to see the area walked down in real-time while communicating with an onsite inspection participant. A hands-free cellular phone mount was used by the onsite participant to carry the phone.

Table 1. September 2020 Individual Inspections Conducted at the Fernald Preserve

Inspection Type	Inspection Date	Participants
OSDF inspection (toe, drainages, fence line)	September 1, 2020	Ohio EPA (virtually), DOE, and Navarro
PSIC site inspection	August 31–September 8, 2020	Navarro

2.0 PSIC Site Inspection

A PSIC site inspection was conducted August 31 to September 8, 2020. Findings are documented on the *Fernald Preserve Institutional Control Inspection* (LMS 3047 FER) form (Attachment 1). Five perimeter signs needed vegetation removed from in front of them, and an additional sign needs to be replaced. The grating at both ends of the 60-inch culvert was still sufficient to prevent access. There was a new beaver dam north of the upper end of the culvert, which had significantly lowered the water level at the upper grating. Due to the low water level upstream, there was minimal water flow through the culvert. Field personnel will continue to monitor and clear out the culvert as needed to maintain flow as part of site maintenance activities.

The site outfall line to the Great Miami River was also inspected in accordance with the LMICP. No new issues were observed along the length of the outfall line on the slope or in the floodplain. The drainage trench established to allow for runoff from a portion of the upper farmed terrace continued to function as intended. Vegetation on the lower portion of the slope is becoming more dense. As a result, manhole 180B, at the bottom of the slope, was not visible. Visual inspection of the outfall line will continue to be part of quarterly PSIC inspections. In addition, a field survey is performed annually in the fall following harvest to ensure that sufficient ground cover is maintained over the line. Results of the survey will be discussed in the December 2020 Quarterly Site Inspection Report.

The build-up of logs and vegetative debris previously identified in Paddys Run at the former train trestle was still present. The water level in Paddys Run was very low, so the build-up was not impeding water flow. Site personnel will continue to monitor this location.

3.0 OSDF Inspection

A quarterly OSDF inspection was conducted on September 1, 2020, with participation by DOE, Ohio EPA (virtually), and Navarro personnel. The inspection included a walkdown of the OSDF toe, drainages, and fence line. Findings were primarily woody vegetation (Attachment 2), which will be addressed by physical removal and herbicide application, as appropriate. There were a few herbaceous invasive species findings and one animal burrow. A map of the findings is presented in Attachment 3.

Photographs of the OSDF and the surrounding area from the September 2020 OSDF inspection are shown in Attachment 4. Photographs of individual findings are typically taken with GPS-enabled cameras. This allows for easier location of the findings for correction or maintenance. When GPS-enabled cameras are used, individual photograph IDs are included in the walkdown inspection summaries. Copies of the photographs are available upon request.

4.0 Quarterly Debris Summary

DOE is committed to providing quarterly summary numbers regarding debris findings. For the third quarter of 2020, 3 pieces of debris were surveyed since the last inspection report (June 2020). No contamination was detected, and all surveyed debris was free released. Surveyed debris is a combination of debris from site and OSDF inspections, inspection follow-ups, discoveries during construction activities, and casual observations while in the field.

5.0 Maintenance and Repair Action Items Summary

Resolution of all findings is tracked through the Fernald Preserve maintenance database. All the findings described in this Quarterly Site Inspection Report have been added to the Fernald Preserve maintenance database and are included in the September 2020 version of the Fernald Preserve maintenance and repair action items summary report (Attachment 5). This report is

typically updated once per quarter. With each updated version, items on the database list that have been newly resolved (i.e., resolved since the previous Quarterly Site Inspection Report) are included in the action items summary report with the date and description of the resolution. After an item has been reported as resolved, that item is removed from the list for the next version of the action items summary report. The resolution of older findings can be found in previous Quarterly Site Inspection Reports.

6.0 OSDF Herbaceous Cover Monitoring

In accordance with Volume II of the LMICP, herbaceous cover data were collected for Cell Caps 1, 2, and 3. For each cell cap, 12 one-meter-square quadrats were randomly located using a 3 × 4 grid. Attachment 6 shows the grid and quadrat locations for each cell cap. Field surveys were conducted on September 1, 2, and 3. Total cover and species richness data were collected for each quadrat. From this information, total cap cover, native species composition, and relative frequency of native species were calculated. Table 2 summarizes the findings, and the data table included in Attachment 7 presents a cap-specific species list.

Table 2. OSDF Herbaceous Cover Monitoring Summary

Cell Cap	Total Cover	Native Species Composition	Relative Frequency of Native Species
1	97%	83%	86%
2	97%	52%	55%
3	97%	62%	59%

The LMICP goals for the OSDF cap included 90% total cover and 50% native species composition. The data collected demonstrate that native species vegetation is being maintained above 50% across Cells 1, 2, and 3. Total cover exceeds the 90% goal for all three cell caps. A prescribed burn took place on these three cell caps in 2018.

7.0 Planned Activities

The remaining 2020 inspection schedule is shown in Table 3.

Table 3. Future Scheduled Inspections at the Fernald Preserve

Inspection Type	Inspection Date	Report Date
<ul style="list-style-type: none"> • OSDF Inspection (Complete Cap and Toe) • Field-Walkdown Site Inspection (West Quadrant) • PSIC Site Inspection 	December 1, 2020	January 2021

Notification of upcoming inspections will be provided prior to the inspection date. As always, the timing of inspections is subject to weather conditions.

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Attachment 1

PSIC Inspection Summary, September 2020

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Fernald Preserve Institutional Control Inspection

Date: 8/30 – 9/8/2020 Inspector: Navarro Camera: NA

Type of Finding					Description	Follow-up			
Institutional Control	Sign	Barrier	Grounds keeping	Other		Photo No.	Corrected	Maintenance Required	Continue Observation
Perimeter Gates with Locks									
					NO FINDINGS				
					NO FINDINGS				
					NO FINDINGS				
					NO FINDINGS				
Perimeter Access Barriers									
					NO FINDINGS				
					NO FINDINGS				
					NO FINDINGS				
					NO FINDINGS				
Perimeter Signs									
S35	X				Sign twisted and damaged		X		
S9, S10, S11, S13, S23	X				Signs blocked by vegetation			X	
					NO FINDINGS				
					NO FINDINGS				
Fenced Areas and Gates with Locks									
CAWWT					NO FINDINGS				
OSDF					NO FINDINGS				
Electric Substation					NO FINDINGS				
Water Meter House					NO FINDINGS				
Trestle					NO FINDINGS				
Interior Access Barrier									
					NO FINDINGS				
					NO FINDINGS				
					NO FINDINGS				
					NO FINDINGS				
Non-remedy Buildings and Structures									
Former Communications Building					NO FINDINGS				
Former Dissolved Oxygen Building					NO FINDINGS				



Fernald Preserve Institutional Control Inspection

Institutional Control	Type of Finding				Description	Photo No.	Follow-up		
	Sign	Barrier	Grounds keeping	Other			Corrected	Maintenance Required	Continue Observation
Restoration Storage Shed					NO FINDINGS				
Uncertified Areas									
60-inch Culvert					NO FINDINGS				
18-inch Culvert					NO FINDINGS				
CAWWT					NO FINDINGS				
South Field Extraction System Valve House					NO FINDINGS				
Outfall Line					NO FINDINGS				
Other									
Roads and Parking Areas					NO FINDINGS				
Cultural Resource Areas					NO FINDINGS				
Additional Notes									

Attachment 2

OSDF Inspection Summary, September 2020

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U.S. Department of Energy Office of Legacy Management

Fernald Preserve OSDF Walkdown Inspection Summary

Beginning: 09/01/2020

Ending: 09/01/2020

Area(s): OSDF Toe, Drainages, and Fence Line

Inspector(s): Ohio EPA (virtually), DOE, Navarro

Map No.	Location	GPS?	Type of Finding	Description	Photo
1	Cell 2, inner west drainage	Yes	Vegetation	Honeysuckle	09012020_41_02
2	Cell 3, inner west drainage	Yes	Vegetation	Box elder	09012020_41_03
3	Cell 3, inner west drainage	Yes	Vegetation	Honeysuckle	09012020_41_04
4	Cell 5, inner west drainage	No	Vegetation	Pear tree	
5	Cell 5, west toe	No	Vegetation	Giant ragweed	
6	Cell 6, inner west drainage	Yes	Vegetation	Honeysuckle	09012020_41_05
7	Cell 6, inner west drainage	Yes	Vegetation	Box elder	09012020_41_06
8	Cell 6, inner west drainage	Yes	Vegetation	Honeysuckle	09012020_41_07
9	Cell 8, inner west drainage, across from VH	Yes	Vegetation	Honeysuckle	09012020_41_08
10	Cell 8, inner west drainage	Yes	Vegetation	Honeysuckle	09012020_41_09
11	Cell 8, west toe, along road	Yes	Biointrusion	Animal burrow	09012020_41_10
12	Cell 8, south drainage	Yes	Vegetation	Honeysuckle (2)	09012020_41_11
13	Cell 4, east drainage	Yes	Vegetation	Cottonwood	09012020_41_12
14	Cell 4, east face and into Cell 3	Yes	Vegetation	Pear trees scattered across slope	09012020_41_13

Map No.	Location	GPS?	Type of Finding	Description	Photo
15	Cell 2, east toe	No	Vegetation	Pear tree	
16	Cell 1, west perimeter fence	Yes	Vegetation	Mulberry and thistle	09012020_43_01
17	Cell 2, west perimeter fence	No	Vegetation	Cedar and cottonwood trees	
18	Cell 2, west outer drainage and perimeter fence	No	Vegetation	Honeysuckle	
19	Cell 3, west outer drainage and perimeter fence	No	Vegetation	Willow trees	
20	Cell 3, behind VH 3	No	Vegetation	Honeysuckle and elm trees	
21	Cell 5, west perimeter fence	No	Vegetation	Mulberry	
22	Cell5/6 boundary, west perimeter fence	No	Vegetation	Thistle and dogwood	
23	Cell 6, west perimeter fence, near raptor perch	No	Vegetation	Mulberry	
24	Cell 6, west perimeter fence behind VH 6	No	Vegetation	Dogwood, multiflora rose, cedar, mulberry, honeysuckle and ash	
25	Cell 7, west perimeter fence behind VH 7	No	Vegetation	Cedar and pear trees	
26	Cell 8, west perimeter fence	No	Vegetation	Cedar tree	
27	Cell 8, southwest corner drainage	No	Vegetation	Thistle	
28	Cell 8, southwest corner drainage	No	Vegetation	Willow tree	
29	Cell 8, south drainage	No	Vegetation	Hackberry	
30	Cell 8, southeast corner drainage	No	Vegetation	Hackberry	

Map No.	Location	GPS?	Type of Finding	Description	Photo
31	Cell 8, southeast corner drainage	No	Vegetation	Honeysuckle and hackberry	
32	Cell 8, east perimeter fence	No	Vegetation	Honeysuckle	
33	Cell 8, east perimeter fence and drainage	No	Vegetation	Thistle	
34	Cell 6, east perimeter fence	No	Vegetation	Ash tree	
35	Cell 5, east perimeter fence	No	Vegetation	Mulberry	
36	Cell 4, east perimeter fence	No	Vegetation	Honeysuckle and pear trees	
37	Cell 3, east perimeter fence	No	Vegetation	Dogwood	
38	Cell 3, east perimeter fence	No	Vegetation	Honeysuckle	
39	Cell 2, east perimeter fence	No	Vegetation	Woody vegetation	
40	Cell 1, east perimeter fence	No	Vegetation	Honeysuckle and dogwood	
41	Cell 1, east perimeter fence	No	Vegetation	Mulberry, thistle and pear tree	
42	Cell 1, northeast corner drainage	No	Vegetation	Ash, cedar, dogwood, and pear trees	
43	Cell 1, north perimeter fence	No	Vegetation	Cedar trees	
44	Cell 1, north drainage	No	Vegetation	Sycamore and cottonwood trees	
45	Cell 1, north drainage	No	Vegetation	Ash, cottonwood and dogwood trees	
46	Cell 1, north perimeter fence	No	Vegetation	Pear and elm trees	

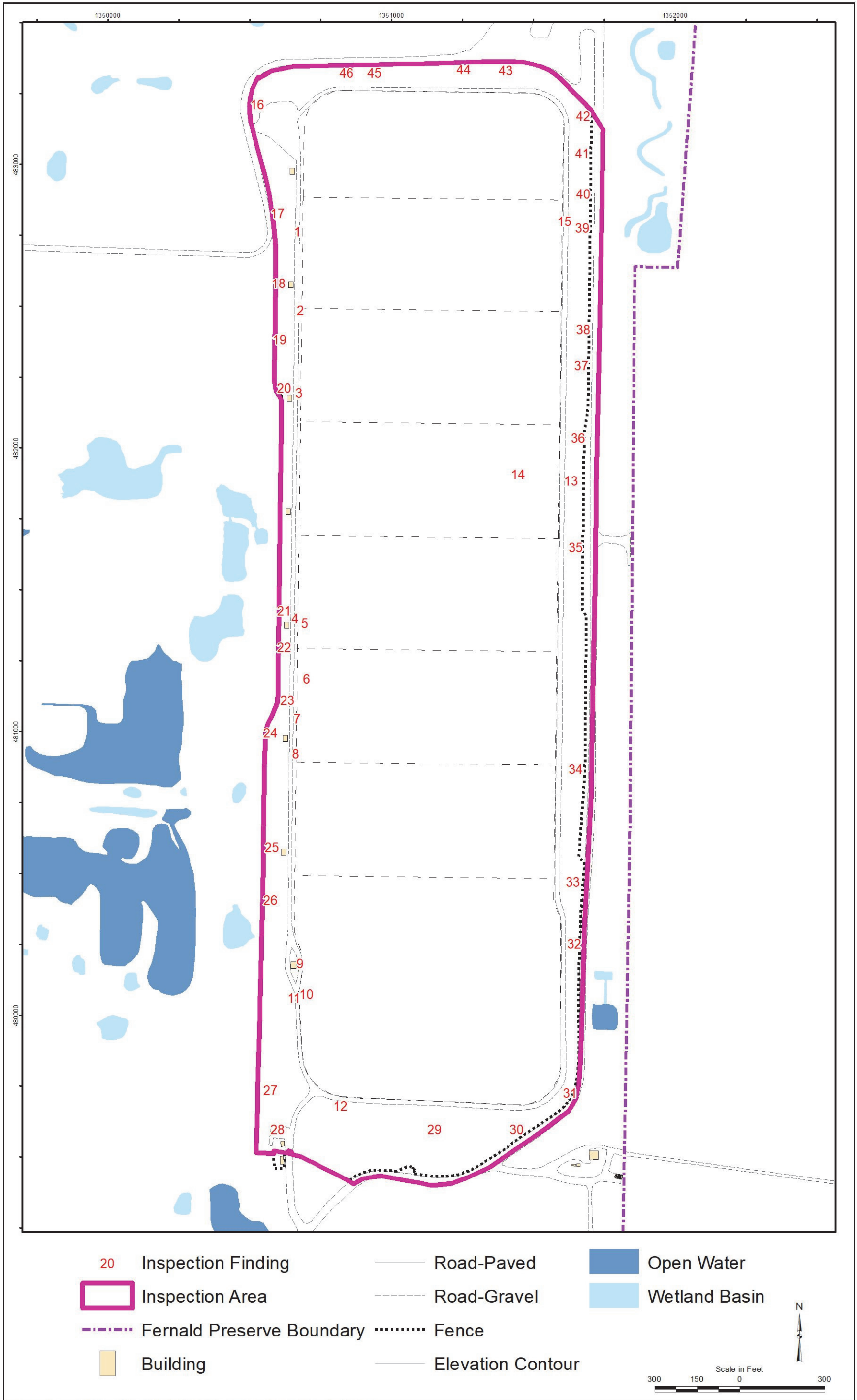
Additional Notes

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Attachment 3

OSDF Inspection Findings Map, September 2020

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OSDF Inspection Findings, September 2020

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Attachment 4

OSDF Inspection Photographs, September 2020

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FERNALD PRESERVE

On-Site Disposal Facility

Inspection Photographs

SEPTEMBER 2020



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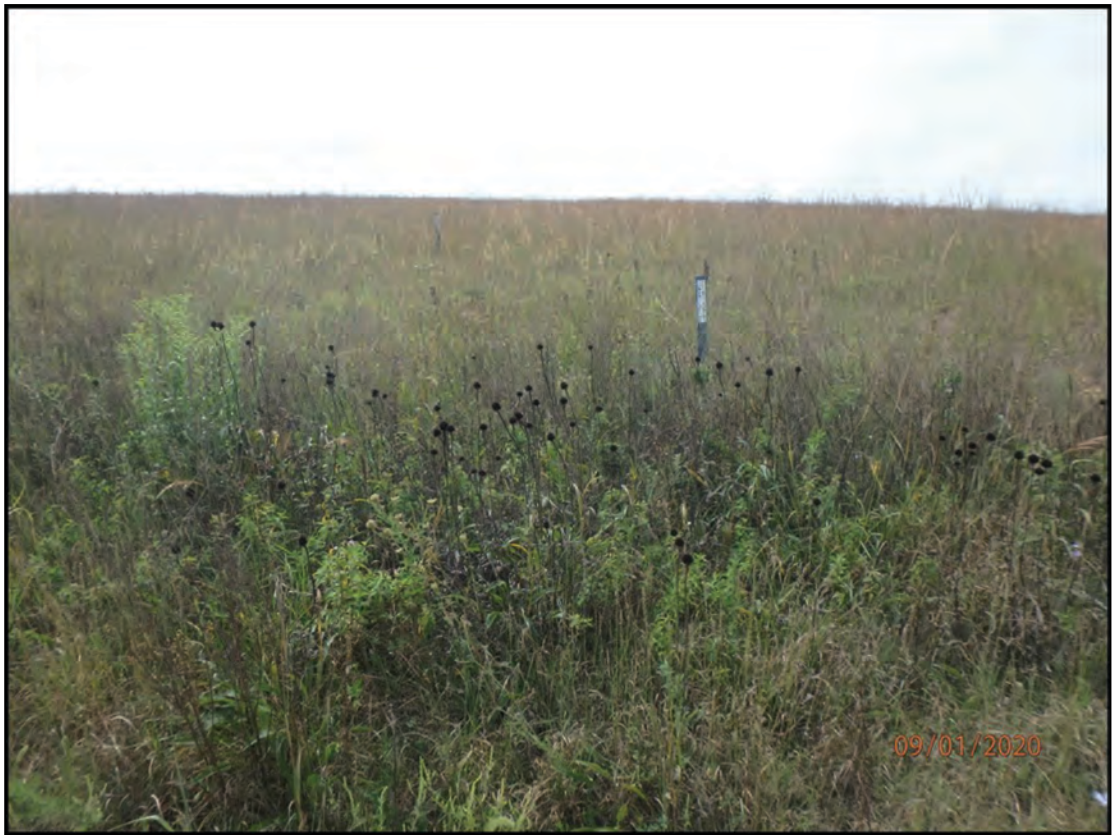
P9010024

East Face Cell 1



P9010001

West Face Cell 1



P9010027

North Face Cell 1



P9010026

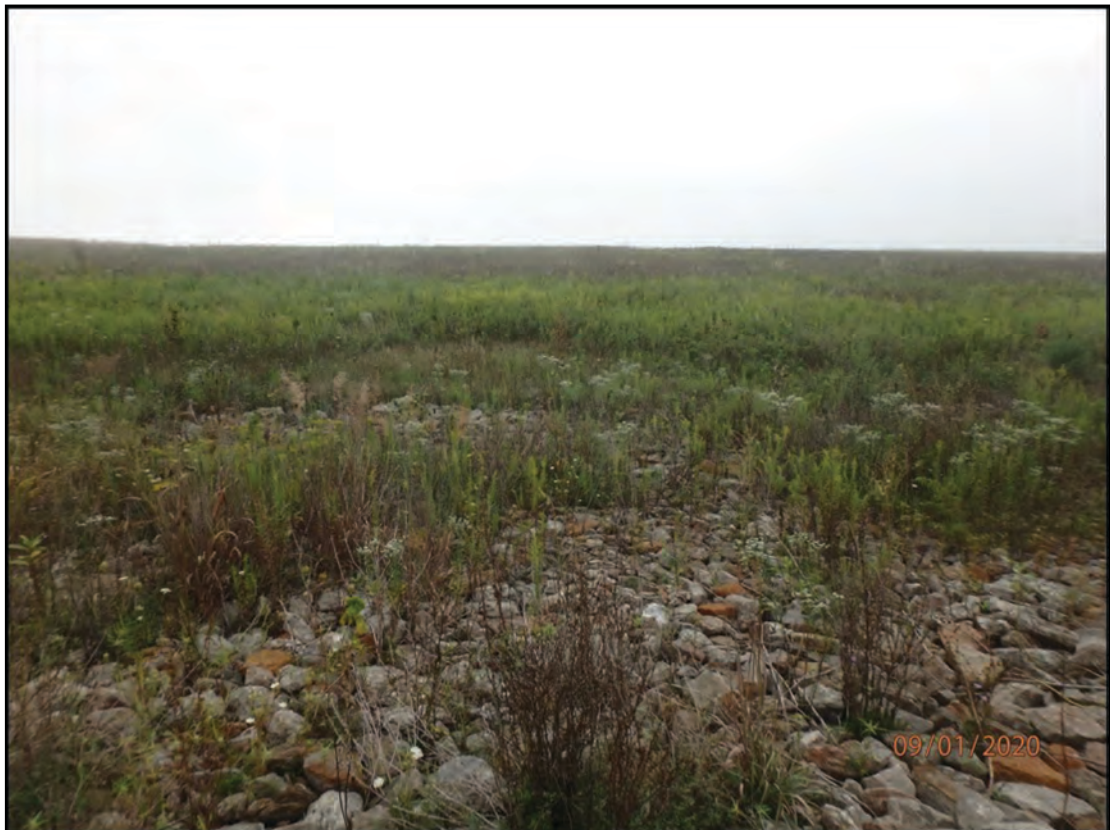
North Drainage (looking west)

Attachment 4, Page 3



P9010023

East Face Cell 2



P9010002

West Face Cell 2



P9010022

East Face Cell 3



P9010003

West Face Cell 3



P9010020

East Face Cell 4



P9010004

West Face Cell 4



P9010019

East Face Cell 5



P9010006

West Face Cell 5



P9010018

East Face Cell 6



P9010007

West Face Cell 6



P9010016

East Face Cell 7



P9010008

West Face Cell 7



P9010015

East Face Cell 8



P9010012

West Face Cell 8



P9010013

South Face Cell 8



P9010014

South Drainage (looking west)

Attachment 4, Page 11



P9010017

East Drainage Cell 7 (looking south)



P9010021

East Drainage Cell 4 (looking south)



P9010025

East Drainage Cell 1 (looking south)



P9010009

West Inner Drainage Cell 7 (looking south)



P9010005

West Inner Drainage Cell 4 (looking south)



P9010028

West Inner Drainage Cell 1 (looking south)



P9010029

West Outer Drainage Cell 1 (looking south)



P9010011

West Outer Drainage Cell 8 (looking south)



P9010010

West Outer Drainage Cell 8 (looking north)

Attachment 5

Maintenance and Repair Action Items Summary, September 2020

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FERNALD PRESERVE MAINTENANCE AND REPAIR ACTION ITEMS SUMMARY
SEPTEMBER 2020 UPDATE

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
1013	South side of south pines deer fence	No	Honeysuckle	6/2/2010	June 2010 quarterly field walkdown	45			Large-scale woody invasives are addressed on a prioritized schedule
1291	North pines	No	Honeysuckle along woodline	9/7/2011	September 2011 quarterly field walkdown	10			Large-scale woody invasives are addressed on a prioritized schedule
1468	Drainage area	No	Garlic mustard	6/5/2012	June 2012 quarterly field walkdown	26			
1739	East bank Paddys Run	No	Multiflora rose	6/6/2013	June 2013 quarterly field walkdown	52			
1781	Hill along State Route 126	No	Honeysuckle	9/4/2013	September 2013 quarterly field walkdown	10			Large-scale woody invasives are addressed on a prioritized schedule
1788	WM1 W4 between pond and swale	No	Honeysuckle	9/4/2013	September 2013 quarterly field walkdown	17			
2232	East and north of service road, northwest of WM2	No	Pear tree	12/4/2014	December 2014 quarterly field walkdown	2			
2235	West of north/south section of Hickory Trail	No	Autumn olive	12/4/2014	December 2014 quarterly field walkdown	5			
2346	W4 swale	No	Honeysuckle	3/12/2015	March 2015 quarterly field walkdown	2			Large-scale woody invasives are addressed on a prioritized schedule
2358	Monitoring Wells 2431 and 3431	No	Water collecting around well pads; terrain needs altered to drain surface water away from wells	3/12/2015	March 2015 quarterly field walkdown	14			
2615	Cell 3, east slope	No	Erosion/burrow	12/2/2015	December 2015 OSDF Inspection	106			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
2659	At base of hill on west side	No	Old cages	12/8/2015	December 2015 quarterly field walkdown	6			
2712	Slope east of drainage that flows north from off site	No	Old deer cages need removed	2/23/2016	February 2016 quarterly field walkdown	12			
2818	Cell 3, west toe	No	Sandy dirt pile	9/6/2016	September 2016 OSDF Inspection	17			
2871	Cell 4, west face	Yes	Rock	12/1/2016	December 2016 OSDF Inspection	1			Camera L14641
2893	Rip rap repair	No	Side blow out	1/11/2017	January 2017 quarterly field walkdown	1			
2907	30 yards north of Swan Pond	No	Old cages need removed	1/11/2017	January 2017 quarterly field walkdown	15			
2912	East bank of drainage/side drainage off top of hill	No	Cut through core matting	1/11/2017	January 2017 quarterly field walkdown	20			
2922	Area not identified on map	No	Large bare area	1/11/2017	January 2017 quarterly field walkdown	30			
2923	East of small basin to the east of Swan Pond	No	Erosion	1/11/2017	January 2017 quarterly field walkdown	31			
2943	North of east/west drain	No	T-posts	1/11/2017	January 2017 quarterly field walkdown	51			
2956	West of concrete wall	Yes	Exposed concrete and erosion	2/8/2017	February 2017 quarterly field walkdown	12			The concrete is from a beneficial reuse of concrete in this area; erosion repair is needed
2958	South of 'dance hall'	No	Broken survey marker	2/8/2017	February 2017 quarterly field walkdown	14			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
2962	Along trail, both sides	No	Deer cages	2/8/2017	February 2017 quarterly field walkdown	18			
2963	Among the trees at the south edge of the field	No	Deer cages	2/8/2017	February 2017 quarterly field walkdown	19			
2964	Pines west of CAWWT	No	Deer cages	2/8/2017	February 2017 quarterly field walkdown	20			
2965	South of trail	No	Cages	2/8/2017	February 2017 quarterly field walkdown	21			
2966	South of south end of trail	No	Deer cages	2/8/2017	February 2017 quarterly field walkdown	22			
2967	West of 'dance hall'	No	Deer cages	2/8/2017	February 2017 quarterly field walkdown	23			
2974	Edge of pond	Yes	Deer cages need to be pulled	3/2/2017	March 2017 quarterly field walkdown	6			
2977	South berm of NPPW5	Yes	Water level 1 foot lower in basin	3/2/2017	March 2017 quarterly field walkdown	9			
3000	Cell 8, gravel roadway along south face	No	The gravel road is developing an erosion rill, washing gravel into south drainage	6/7/2017	June 2017 OSDF Inspection	2			
3058	Top of the hill	Yes	Survey marker is at this location; unknown why it is here	12/7/2017	December 2017 quarterly field walkdown	1			
3063	South end of flood plain along Paddys Run	Yes	Metal posts and cages at trees	12/7/2017	December 2017 quarterly field walkdown	6			
3066	West end of railroad trestle	Yes	Concrete	12/7/2017	December 2017 quarterly field walkdown	9			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3067	Bank of creek	Yes	Post on ground; signs on ground	12/7/2017	December 2017 quarterly field walkdown	10			
3068	East of deer fence	Yes	Old cages need removed	12/7/2017	December 2017 quarterly field walkdown	11			
3069	North side of west end of W2	Yes	Deer cages need removed	12/7/2017	December 2017 quarterly field walkdown	12			
3071	North end of flood plain	Yes	Metal posts at several trees need removed	12/7/2017	December 2017 quarterly field walkdown	14			
3072	Along Paddys Run Rd	Yes	Deer cages need removed	12/7/2017	December 2017 quarterly field walkdown	15			
3074	Cell 5, west top	Yes	Honeysuckle	12/14/2017	December 2017 OSDF Inspection	2			
3082	North end of 60" culvert	No	Vegetation buildup; appears metal grate is detaching from concrete	12/8/2017	December 2017 point-specific institutional controls inspection	NA			Water is flowing freely
3085	Northeast of Swan pond	Yes	Wash out between ponds	1/10/2018	January 2018 quarterly field walkdown	1			
3103	East edge of basin just south of CAWWT	No	Water coming into an area, causing a 4-foot bare area and erosion	1/10/2018	January 2018 quarterly field walkdown	19			
3111	Bank over creek	No	Tree cages (need removed)	2/13/2018	February 2018 quarterly field walkdown	4			
3112	Behind "bone yard"	No	Tree cages (need removed)	2/13/2018	February 2018 quarterly field walkdown	5			
3113	East side of deer fence	Yes	Break in deer fence	2/13/2018	February 2018 quarterly field walkdown	6			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3114	East of well house	Yes	Styrofoam pieces	2/13/2018	February 2018 quarterly field walkdown	7			
3115	Road down into SSOD	No	Tree across access	2/13/2018	February 2018 quarterly field walkdown	8			
3123	North side of fence	Yes	Deer fence ripped and sagging	2/13/2018	February 2018 quarterly field walkdown	16	Deer fence repaired	8/11/2020	
3124	Southeast side of deer fence	Yes	Deer fence sagging	2/13/2018	February 2018 quarterly field walkdown	17	Deer fence re-hung	9/2/2020	
3128	North of pond	No	Tree cages and metal posts (need removed)	3/6/2018	March 2018 quarterly field walkdown	2			
3129	Property line	No	Metal posts from old power lines	3/6/2018	March 2018 quarterly field walkdown	3			
3134	Basin 6	No	Hole	3/6/2018	March 2018 quarterly field walkdown	8			
3179	Cell 2, east toe	Yes	Holes, possible soil settling	4/10/2018	April 2018 OSDF Inspection	31			
3188	Cell 3, west toe across from valve house	No	Erosion in several places at and along rip rap, 6" deep	4/10/2018	April 2018 OSDF Inspection	40			
3204	North fence line	Yes	Couplers broken from fence	6/6/2018	June 2018 OSDF Inspection	15			
3260	Cell 4, west drainage, at midpoint of fence (outside)	No	Concrete	12/5/2018	December 2018 OSDF Inspection	21			
3261	Cell 3, west drainage, at fence (outside)	No	Minor erosion	12/5/2018	December 2018 OSDF Inspection	22			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3265	East side of deer fence	No	Japanese honeysuckle pulling fence down pole	12/12/2018	December 2018 quarterly field walkdown	2			
3267	South end of floodplain	Yes	Old deer cages and metal posts on ground	12/12/2018	December 2018 quarterly field walkdown	4			
3271	South end of floodplain	Yes	Deer cages and metal posts on ground	12/12/2018	December 2018 quarterly field walkdown	8			
3272	East end of former chainlink fence	Yes	6" diameter pipe from former chain link fence left in the ground; open hole	12/12/2018	December 2018 quarterly field walkdown	9			
3275	In wooded area	Yes	Tree tubes need removed	12/12/2018	December 2018 quarterly field walkdown	12			
3293	West of former waste pits	Yes	Rail road tie	1/10/2019	January 2019 quarterly field walkdown	5			Need equipment to access
3306	East fenceline	Yes	Hole in fence	2/14/2019	February 2019 quarterly field walkdown	1	Hole repaired	9/9/2020	
3307	West of road in grass	Yes	Coiled hose	2/14/2019	February 2019 quarterly field walkdown	2	Unable to locate	9/9/2020	
3311	North and west side of deer fence south of "dance hall"	Yes	Hole in fence and fence sliding down poles	2/14/2019	February 2019 quarterly field walkdown	6	Hole repaired; deer fence re-hung	8/11/2020	
3312	East side of deer fence	Yes	Fence sliding down poles	2/14/2019	February 2019 quarterly field walkdown	7	Deer fence re-hung	9/2/2020	
3313	Southwest corner of south field deer fence at well house	Yes	Fence sliding down poles	2/14/2019	February 2019 quarterly field walkdown	8	Deer fence re-hung	9/8/2020	
3315	Deer fence across from Lodge Pond	Yes	Northwest corner of fence needs pulled back into place	2/14/2019	February 2019 quarterly field walkdown	10			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3316	Southeast corner of deer fence just west of gravel road	No	Fence falling down poles	2/14/2019	February 2019 quarterly field walkdown	11	Deer fence re-hung	6/29/2020	
3317	Unforested portion of hill west of SSOD	No	Erosion of hillside	2/14/2019	February 2019 quarterly field walkdown	12			
3319	Along Paddys Run	Yes	Steel post	2/14/2019	February 2019 quarterly field walkdown	14			
3340	Cell 8, gravel road along south face	Yes	Erosion in gravel road	3/13/2019	March 2019 OSDF Inspection	16			Finding previously identified
3342	East edge of borrow area basin at toe of slope	Yes	Pear tree	3/13/2019	March 2019 quarterly field walkdown	2			
3344	East slope of borrow area basin, southeast corner	Yes	Pear trees	3/13/2019	March 2019 quarterly field walkdown	4			
3345	South of Lodge Pond	Yes	Metal tree protection cages and metal posts need removed	3/13/2019	March 2019 quarterly field walkdown	5			
3349	Between east pond and slope	Yes	Pear trees	3/13/2019	March 2019 quarterly field walkdown	9			
3351	Southeast corner of borrow area basin, on slope	Yes	Pear trees	3/13/2019	March 2019 quarterly field walkdown	11			
3352	South slope of borrow area basin	Yes	Pear trees	3/13/2019	March 2019 quarterly field walkdown	12			
3359	Along levy/ridge	Yes	Erosion at end of culvert	3/13/2019	March 2019 quarterly field walkdown	18			
3360	Along levy/ridge	Yes	Erosion, hole	3/13/2019	March 2019 quarterly field walkdown	19			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3372	Pines along north access road, most northern group of trees	Yes	Trash (bottle, metal)	3/13/2019	March 2019 quarterly field walkdown	27			
3392	Cell 8, north of VH 8, across from utility pole	No	Tile	3/20/2019	March 2019 OSDF Inspection	18			Post-burn walkover
3393	Cell 8, west 6:1 on ridge	No	Brick	3/20/2019	March 2019 OSDF Inspection	19			Post-burn walkover
3395	Cell 8, west 6:1	No	Fabric	3/20/2019	March 2019 OSDF Inspection	21			Post-burn walkover
3396	Cell 8, south face	No	Fabric	3/20/2019	March 2019 OSDF Inspection	22			Post-burn walkover
3397	Cell 8, southeast corner	No	Bag/trash	3/20/2019	March 2019 OSDF Inspection	23			Post-burn walkover
3398	Cell 7/8 boundary, top	No	Animal burrow	3/20/2019	March 2019 OSDF Inspection	24			Post-burn walkover
3434	East bank of MDC	Yes	Rill going down slope	4/29/2019	April 2019 quarterly field walkdown	36			Post-burn walkdown
3521	60-inch culvert	No	Vegetative debris blocking most of upper opening	6/11/2019	June 2019 point-specific institutional controls inspection	NA			
3522	Outfall line, east of Fernald property	No	Property owner installed drainage trench.	6/10/2019	June 2019 point-specific institutional controls inspection	NA			Area will be monitored to ensure erosion does not become an issue
3533	Cell 8, south drain along east side of north/south drain	No	Honeysuckle	9/4/2019	September 2019 OSDF Inspection	11			No flag
3537	60-inch culvert, north end	No	North end mostly blocked with mud, vegetative debris and new vegetation growth.	9/5/2019	September 2019 point-specific institutional controls inspection	NA			Water levels are down and there is currently no water flow through the culvert, even though water levels are above the bottom of the culvert. Standing water in the culvert.

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3540	Southeast side of deer fence	No	Tree on deer fence	12/4/2019	December 2019 quarterly field walkdown	2			
3541	West side of deer fence	No	Hole in deer fence	12/4/2019	December 2019 quarterly field walkdown	3			
3542	Southeast corner of deer fence	No	Japanese honeysuckle pulling deer fence down	12/4/2019	December 2019 quarterly field walkdown	4			
3543	East side of deer fence	No	Japanese honeysuckle on fence	12/4/2019	December 2019 quarterly field walkdown	5			
3544	Adjacent to Paddys Run	No	Tree tubes laying on ground need to be removed	12/4/2019	December 2019 quarterly field walkdown	6			
3545	East of access path and PRT RF2	No	Tree protection cages need removed	12/4/2019	December 2019 quarterly field walkdown	7			
3546	Cell 4, west 6:1/10:1 change	Yes	Pear trees	12/5/2019	December 2019 OSDF Inspection	1			
3547	Cell 8, east 10:1/20:1 change	Yes	Groundhog hole	12/5/2019	December 2019 OSDF Inspection	2			
3548	Cell 3, east 10:1 slope	Yes	Pear trees	12/5/2019	December 2019 OSDF Inspection	3			
3549	Cell 2, east toe	Yes	Honeysuckle	12/5/2019	December 2019 OSDF Inspection	4			
3550	Cell 3, east toe	Yes	Pear tree	12/5/2019	December 2019 OSDF Inspection	5			
3551	Cell 3, east toe	Yes	Groundhog hole	12/5/2019	December 2019 OSDF Inspection	6			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3552	Cell 4, west 6:1 top	Yes	Cluster of 3 pear trees	12/5/2019	December 2019 OSDF Inspection	7			
3553	Cell 5, west top 6:1, near fire break	Yes	Pear tree	12/5/2019	December 2019 OSDF Inspection	8			
3554	Cell 3, east 20:1	Yes	Pear seedlings, several in area	12/5/2019	December 2019 OSDF Inspection	9			
3555	Cell 2, east 6:1	Yes	Pear seedling	12/5/2019	December 2019 OSDF Inspection	10			
3556	Cell 3, east 6:1	Yes	Pear trees, several in area	12/5/2019	December 2019 OSDF Inspection	11			
3557	Cell 4, east 6:1	Yes	Pear trees, several in area	12/5/2019	December 2019 OSDF Inspection	12			
3558	Cell 5, west 6:1	Yes	Woody plant (pear)	12/5/2019	December 2019 OSDF Inspection	13			
3559	Cell 6, east top	Yes	Woody plant (pear)	12/5/2019	December 2019 OSDF Inspection	14			
3560	Cell 5, east 6:1	Yes	Two woody plants (pears)	12/5/2019	December 2019 OSDF Inspection	15			
3561	Cell 4, east 6:1	Yes	Woody plant, several	12/5/2019	December 2019 OSDF Inspection	16			
3562	Cell 3, east 6:1	Yes	Woody plant (pear)	12/5/2019	December 2019 OSDF Inspection	17			
3563	Cell 2, east 6:1	Yes	Woody plant (pear)	12/5/2019	December 2019 OSDF Inspection	18			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3564	Cell 2/3 boundary, east 6:1	Yes	Woody plant (pear)	12/5/2019	December 2019 OSDF Inspection	19			
3565	Cell 4, east 6:1, south end	Yes	Woody plant, several (pear)	12/5/2019	December 2019 OSDF Inspection	20			
3566	Cell 7, west 6:1	Yes	Woody vegetation (tree of heaven)	12/5/2019	December 2019 OSDF Inspection	21			
3567	Cell 3, east top	Yes	Callery pear, several	12/5/2019	December 2019 OSDF Inspection	22			
3568	Cell 2, east toe	Yes	Callery pear	12/5/2019	December 2019 OSDF Inspection	23			
3569	Cell 3, east toe	Yes	Callery pear	12/5/2019	December 2019 OSDF Inspection	24			
3570	Cell 4, east toe	Yes	Woody vegetation (callery pear)	12/5/2019	December 2019 OSDF Inspection	25			
3571	Cell 3, west 6:1, south end	Yes	Pear tree	12/5/2019	December 2019 OSDF Inspection	26			
3572	Cell 4, west 6:1	Yes	Pear trees, several south and west	12/5/2019	December 2019 OSDF Inspection	27			
3573	Cell 5, west 6:1	Yes	Pear tree	12/5/2019	December 2019 OSDF Inspection	28			
3574	Cell 8, southwest corner 6:1	Yes	Pear tree	12/5/2019	December 2019 OSDF Inspection	29			
3575	Cell 3, east 6:1	Yes	Pear tree	12/5/2019	December 2019 OSDF Inspection	30			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3576	Cell 5, east 6:1, north end	No	Pear tree	12/5/2019	December 2019 OSDF Inspection	31			
3577	Cell 4, east 6:1	No	Pear trees (several)	12/5/2019	December 2019 OSDF Inspection	32			
3578	Cell 3/4 boundary, east 6:1	No	Honeysuckle, pear trees (many across cell face)	12/5/2019	December 2019 OSDF Inspection	33			
3579	Cell 8, south perimeter fence near south gate	Yes	Sign is crooked/falling	12/10/2019	December 2019 OSDF Inspection	34			
3580	Cell 6, west perimeter fence	Yes	Muskrat burrow	12/10/2019	December 2019 OSDF Inspection	35			
3581	Cell 1, north gate	Yes	Laminate peeling off of sign	12/10/2019	December 2019 OSDF Inspection	36			
3584	East property fence line access gate	No	Perimeter access gate V12 needs a "No trespassing" sign	12/3/2019	December 2019 point-specific institutional controls inspection	NA			
3585	Former railroad trestle	No	There is a "log jam" in Paddys Run below the trestle.	12/10/2019	December 2019 point-specific institutional controls inspection	NA			
3586	Outfall line	No	Sandbags around a manhole are deteriorating and need replaced	12/10/2019	December 2019 point-specific institutional controls inspection	NA			
3590	East of backwash basin	Yes	Large patch of teasel	1/15/2020	January 2020 quarterly field walkdown	4			
3600	Peninsula	Yes	Tree protection cages need removed	1/15/2020	January 2020 OSDF Inspection	14			
3602	Bank of drainage	Yes	Thistle	1/15/2020	January 2020 quarterly field walkdown	16			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3603	West of well access road	No	Erosion rill outside the rip rap drainage	1/15/2020	January 2020 quarterly field walkdown	17			
3604	Ridge between ponds	No	Teasel	1/15/2020	January 2020 quarterly field walkdown	18			
3605	South of drainage	No	Teasel (large patch)	1/15/2020	January 2020 quarterly field walkdown	19	Herbicide applied	9/4/2020	
3606	West of FPAW4	No	Phragmites	1/15/2020	January 2020 quarterly field walkdown	20			
3607	South edge of "Union" pond	No	Teasel (large patch)	1/15/2020	January 2020 quarterly field walkdown	21			
3615	Edge of road	Yes	Pear tree	3/5/2020	March 2020 quarterly field walkdown	1			
3616	Boardwalk - south end	Yes	Pear tree	3/5/2020	March 2020 quarterly field walkdown	2			
3619	In basin	Yes	Pear tree	3/5/2020	March 2020 quarterly field walkdown	5			
3623	Headwall	Yes	Erosion	3/5/2020	March 2020 quarterly field walkdown	9			
3624	North (west end) side of deer fence, outside of fence	Yes	Metal post inside shrub	3/5/2020	March 2020 quarterly field walkdown	10			
3625	West side of deer fence	Yes	Fence detached from poles and is sliding down	3/5/2020	March 2020 quarterly field walkdown	11	Deer fence re-hung	6/25/2020	
3626	Southwest corner of deer fence	Yes	Hole in fence; metal posts in the ground not being used	3/5/2020	March 2020 quarterly field walkdown	12	Hole repaired	6/25/2020	

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3627	Southwest corner of deer fence	Yes	Pear tree; tree protection cage and metal post	3/5/2020	March 2020 quarterly field walkdown	13	Deer cage, metal post and pear tree removed	6/25/2020	
3628	Southeast corner of deer fence	Yes	Fencing sliding down poles	3/5/2020	March 2020 quarterly field walkdown	14	Deer fence re-hung	6/29/2020	
3629	Across from "dance hall"	Yes	Tree protection cages need removed	3/5/2020	March 2020 quarterly field walkdown	15			
3630	Northeast face of deer fence	Yes	Split in fence	3/5/2020	March 2020 quarterly field walkdown	16	Hole repaired	6/30/2020	
3631	East face of deer fence	Yes	Fence sliding down poles	3/5/2020	March 2020 quarterly field walkdown	17	Deer fence re-hung	9/1/2020	
3632	West face of deer fence	Yes	Fence sliding down poles; split in fence	3/5/2020	March 2020 quarterly field walkdown	18	Deer fence re-hung; hole repaired	6/29/2020	
3633	West of basin	Yes	Pear tree	3/5/2020	March 2020 quarterly field walkdown	19			
3634	North of basin	Yes	Tree protection cage	3/5/2020	March 2020 quarterly field walkdown	20			Is this tree cage still being used?
3635	South of east/west drainage	Yes	Old tree fencing	3/5/2020	March 2020 quarterly field walkdown	21			Green flag with little holes
3636	Near split in trail	Yes	Pear tree	3/5/2020	March 2020 quarterly field walkdown	22			
3639	South of split, inside Sycamore Trail loop	No	Pear trees (several)	3/5/2020	March 2020 quarterly field walkdown	25			
3640	Southeast of Sycamore Trail loop	No	Pear trees (2)	3/5/2020	March 2020 quarterly field walkdown	26			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3642	North of deer fence	No	Pear trees	3/5/2020	March 2020 quarterly field walkdown	28			
3643	Northwest of basin	No	Chicken wire	3/5/2020	March 2020 quarterly field walkdown	29			
3644	At trail intersection	No	Pear tree	3/5/2020	March 2020 quarterly field walkdown	30			
3645	Inside north end of trail loop	No	Pear tree	3/5/2020	March 2020 quarterly field walkdown	31			
3646	Along Sycamore Trail	No	Pear trees (2)	3/5/2020	March 2020 quarterly field walkdown	32			
3647	Along Sycamore Trail	No	Pear tree	3/5/2020	March 2020 quarterly field walkdown	33			
3649	South field by well house 32	No	Pear trees (several)	3/5/2020	March 2020 quarterly field walkdown	35			
3650	Field across from Lodge Pond overlook	No	Pear trees (several)	3/5/2020	March 2020 quarterly field walkdown	36			
3653	Basin inside Sycamore Trail loop	No	Pear tree	3/5/2020	March 2020 quarterly field walkdown	39			
3654	Southwest corner of deer fence	No	Open fence	3/5/2020	March 2020 quarterly field walkdown	40	Fence gate closed	9/1/2020	
3656	North end of prairie	No	Pear tree	3/5/2020	March 2020 quarterly field walkdown	42			
3657	End of Paddys Run overlook	No	Pear tree	3/5/2020	March 2020 quarterly field walkdown	43			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3658	West end of pond	No	Pear trees (several)	3/5/2020	March 2020 quarterly field walkdown	44			
3659	Trail intersection	No	Pear tree	3/5/2020	March 2020 quarterly field walkdown	45			
3660	South edge of pond	No	Pear trees (several)	3/5/2020	March 2020 quarterly field walkdown	46			
3661	Just inside north end of pine trees	No	Tree protection cages need removed	3/5/2020	March 2020 quarterly field walkdown	47			
3662	Top ridge of SWU	No	Pear trees (5+)	3/5/2020	March 2020 quarterly field walkdown	48			
3664	Basin inside Sycamore Trail loop	No	Pear trees (3+)	3/5/2020	March 2020 quarterly field walkdown	50			
3665	Basin inside Sycamore Trail loop	No	Pear trees (3+)	3/5/2020	March 2020 quarterly field walkdown	51			
3666	Southeast of Sycamore Trail loop	No	Pear trees (4+)	3/5/2020	March 2020 quarterly field walkdown	52			
3667	South of "dance hall"	No	Pear tree	3/5/2020	March 2020 quarterly field walkdown	53			
3668	Adjacent to road	No	Pear trees	3/5/2020	March 2020 quarterly field walkdown	54			
3670	South of deer fence	No	Pear trees (several)	3/5/2020	March 2020 quarterly field walkdown	56			
3671	Along west side of gravel road under power lines	No	Pear trees (several)	3/5/2020	March 2020 quarterly field walkdown	57			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3672	Along main access road west of SWRB	No	Pear tree	3/5/2020	March 2020 quarterly field walkdown	58			
3673	Next to trail	No	Pear trees (several)	3/5/2020	March 2020 quarterly field walkdown	59			
3674	Northwest side of deer fence	No	Hole in fence	3/5/2020	March 2020 quarterly field walkdown	60			
3675	South side of deer fence	No	Hole in fence	3/5/2020	March 2020 quarterly field walkdown	61			
3676	Cell 6, west inner drainage	Yes	Cedar tree	3/5/2020	March 2020 OSDF Inspection	1	Woody vegetation cut	6/18/2020	
3677	Cell 8, west outer drainage at road edge	Yes	Cedar tree	3/5/2020	March 2020 OSDF Inspection	2	Woody vegetation cut	6/18/2020	
3679	Cell 8, south toe along road edge	Yes	Brick	3/5/2020	March 2020 OSDF Inspection	4			
3680	Cell 7, east toe along road edge	Yes	Cedar tree	3/5/2020	March 2020 OSDF Inspection	5	Woody vegetation cut	6/18/2020	
3681	Cell 3, east toe along road edge	Yes	Cedar tree	3/5/2020	March 2020 OSDF Inspection	6	Woody vegetation cut	6/18/2020	
3682	Cell 3, east drainage at riprap edge	Yes	Cedar tree	3/5/2020	March 2020 OSDF Inspection	7	Woody vegetation cut	6/18/2020	
3683	Cell 1, north drainage	No	Cedar trees (several)	3/5/2020	March 2020 OSDF Inspection	8	Woody vegetation cut	6/18/2020	
3686	West of slope bottom	No	Teasel monoculture	6/3/2020	June 2020 quarterly field walkdown	1			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3687	East of W5	No	Pear trees	6/3/2020	June 2020 quarterly field walkdown	2			
3688	East and southeast of W4	No	Pear trees	6/3/2020	June 2020 quarterly field walkdown	3			
3689	West of slope bottom	No	Teasel	6/3/2020	June 2020 quarterly field walkdown	4			
3690	East side of area, between wet areas	No	Teasel (patchy in low spots)	6/3/2020	June 2020 quarterly field walkdown	5	Herbicide applied	8/4/2020	
3691	East edge of pines	No	Multiflora rose	6/3/2020	June 2020 quarterly field walkdown	6			
3692	South of Lodge Pond, bottom of west slope, west of W2	No	Multiflora rose (possibly)	6/3/2020	June 2020 quarterly field walkdown	7	Herbicide applied	7/2/2020	
3693	Bottom of south slope, south of W9	No	Pear trees and thistle	6/3/2020	June 2020 quarterly field walkdown	8	Woody vegetation cut; herbicide applied	7/15/2020	
3694	West of slope bottom	No	Pear trees and thistle	6/3/2020	June 2020 quarterly field walkdown	9			
3696	North of north pines, along St. rt. 126	No	Area becoming inundated with honeysuckle	6/3/2020	June 2020 quarterly field walkdown	11			
3698	North of DO Building, south of pond	No	Honeysuckle and pear trees	6/3/2020	June 2020 quarterly field walkdown	13			
3699	East perimeter, south of well access road entrance	No	Bird box sild down post	6/3/2020	June 2020 quarterly field walkdown	14			
3700	South of WM1, east of road	No	Honeysuckle and pear trees	6/3/2020	June 2020 quarterly field walkdown	15			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3701	East edge of road	No	Teasel, honeysuckle, pear tree, autumn olive	6/3/2020	June 2020 quarterly field walkdown	16			
3702	East edge of road	No	Honeysuckle and pear trees	6/3/2020	June 2020 quarterly field walkdown	17			
3703	East of road in drainage	No	Teasel	6/3/2020	June 2020 quarterly field walkdown	18			
3704	W7	No	Phragmites	6/3/2020	June 2020 quarterly field walkdown	19			
3705	Berm of W1 and W6	No	Honeysuckle	6/3/2020	June 2020 quarterly field walkdown	20			
3706	East edge of W1	No	Honeysuckle, pear trees, autumn olive shrubs and teasel	6/3/2020	June 2020 quarterly field walkdown	21			
3707	West side of basins and berms between W2 and W3, and W3 and W4	No	Honeysuckle, pear trees, autumn olive shrubs and teasel	6/3/2020	June 2020 quarterly field walkdown	22			
3708	West side of W1	No	Phragmites	6/3/2020	June 2020 quarterly field walkdown	23			
3709	West side of W6	No	Phragmites, teasel, canada thistle	6/3/2020	June 2020 quarterly field walkdown	24	Herbicide applied	8/11/2020	Phragmites not addressed
3710	Northwest corner of W7	No	Pear trees and honeysuckle	6/3/2020	June 2020 quarterly field walkdown	25			
3711	Cell 1, north drainage, northwest corner	No	Teasel, pear tree, honeysuckle, cedar tree	6/3/2020	June 2020 OSDF Inspection	1			Herbicide applied to teasel 7/23/2020
3712	Cell 1, north drainage bottom at former gate location	No	Honeysuckle	6/3/2020	June 2020 OSDF Inspection	2			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3713	Cell 1, northeast corner drainage	No	Cedar, honeysuckle, pear	6/3/2020	June 2020 OSDF Inspection	3			
3714	Cell 3, east drainage at fence	No	Honeysuckle	6/3/2020	June 2020 OSDF Inspection	4			
3715	Cell 3/4 boundary, east drainage at fence	No	Pear tree	6/3/2020	June 2020 OSDF Inspection	5			
3718	Cell 5, east drainage at fence	No	Pear trees	6/3/2020	June 2020 OSDF Inspection	8			
3719	Cell 6, west edge of road	No	Pear trees and honeysuckle	6/3/2020	June 2020 OSDF Inspection	9			
3720	Cell 1, east and west slopes	No	Scattered woody vegetation	6/3/2020	June 2020 OSDF Inspection	10			
3721	Cell 2, east and west slopes	No	Scattered woody vegetation	6/3/2020	June 2020 OSDF Inspection	11			
3722	Cell 3, east and west slopes	No	Scattered woody vegetation	6/3/2020	June 2020 OSDF Inspection	12			
3723	Cell 4, east and west slopes	No	Scattered woody vegetation	6/3/2020	June 2020 OSDF Inspection	13			
3724	Cell 5, west side of road	No	Woody vegetation	6/3/2020	June 2020 OSDF Inspection	14			
3725	Cell 5, west side of road	No	Woody vegetation	6/3/2020	June 2020 OSDF Inspection	15			
3726	Cell 6, toe of slope	No	Woody vegetation	6/3/2020	June 2020 OSDF Inspection	16			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3727	Cell 6, west drainage	No	Woody vegetation, thistle, teasel	6/3/2020	June 2020 OSDF Inspection	17			Herbicide applied to thistle and teasel on 7/27/2020
3728	Cell 8, east toe and drainage	No	Teasel	6/3/2020	June 2020 OSDF Inspection	18	Herbicide applied	7/20/2020	
3729	S51, north property perimeter	No	Vegetation blocking sign	6/3/2020	June 2020 point-specific institutional controls inspection	NA			
3730	S59, S60, S61, east property perimeter	No	Vegetation blocking signs	6/9/2020	June 2020 point-specific institutional controls inspection	NA			
3731	Sycamore trail, loop	No	Trees overhanging trail	6/8/2020	Weekly Trail Inspection				
3732	Cell 2, inner west drainage	Yes	Honeysuckle	9/1/2020	September 2020 OSDF Inspection	1			
3733	Cell 3, inner west drainage	Yes	Box elder	9/1/2020	September 2020 OSDF Inspection	2			
3734	Cell 3, inner west drainage	Yes	Honeysuckle	9/1/2020	September 2020 OSDF Inspection	3			
3735	Cell 5, inner west drainage	No	Pear tree	9/1/2020	September 2020 OSDF Inspection	4			
3736	Cell 5, west toe	No	Giant ragweed	9/1/2020	September 2020 OSDF Inspection	5			
3737	Cell 6, inner west drainage	Yes	Honeysuckle	9/1/2020	September 2020 OSDF Inspection	6			
3738	Cell 6, inner west drainage	Yes	Box elder	9/1/2020	September 2020 OSDF Inspection	7			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3739	Cell 6, inner west drainage	Yes	Honeysuckle	9/1/2020	September 2020 OSDF Inspection	8			
3740	Cell 8, inner west drainage, across from VH	Yes	Honeysuckle	9/1/2020	September 2020 OSDF Inspection	9			
3741	Cell 8, inner west drainage	Yes	Honeysuckle	9/1/2020	September 2020 OSDF Inspection	10			
3742	Cell 8, west toe, along road	Yes	Animal burrow	9/1/2020	September 2020 OSDF Inspection	11			
3743	Cell 8, south drainage	Yes	Honeysuckle (2)	9/1/2020	September 2020 OSDF Inspection	12			
3744	Cell 4, east drainage	Yes	Cottonwood	9/1/2020	September 2020 OSDF Inspection	13			
3745	Cell 4, east face and into Cell 3	Yes	Pear trees scattered across slope	9/1/2020	September 2020 OSDF Inspection	14			
3746	Cell 2, east toe	No	Pear tree	9/1/2020	September 2020 OSDF Inspection	15			
3747	Cell 1, west perimeter fence	Yes	Mulberry and thistle	9/1/2020	September 2020 OSDF Inspection	16			
3748	Cell 2, west perimeter fence	No	Cedar and cottonwood trees	9/1/2020	September 2020 OSDF Inspection	17			
3749	Cell 2, west outer drainage and perimeter fence	No	Honeysuckle	9/1/2020	September 2020 OSDF Inspection	18			
3750	Cell 3, west outer drainage and perimeter fence	No	Willow trees	9/1/2020	September 2020 OSDF Inspection	19			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3751	Cell 3, behind VH 3	No	Honeysuckle and elm trees	9/1/2020	September 2020 OSDF Inspection	20			
3752	Cell 5, west perimeter fence	No	Mulberry	9/1/2020	September 2020 OSDF Inspection	21			
3753	Cell5/6 boundary, west perimeter fence	No	Thistle and dogwood	9/1/2020	September 2020 OSDF Inspection	22			
3754	Cell 6, west perimeter fence, near raptor perch	No	Mulberry	9/1/2020	September 2020 OSDF Inspection	23			
3755	Cell 6, west perimeter fence behind VH 6	No	Dogwood, multiflora rose, cedar, mulberry, honeysuckle and ash	9/1/2020	September 2020 OSDF Inspection	24			
3756	Cell 7, west perimeter fence behind VH 7	No	Cedar and pear trees	9/1/2020	September 2020 OSDF Inspection	25			
3757	Cell 8, west perimeter fence	No	Cedar tree	9/1/2020	September 2020 OSDF Inspection	26			
3758	Cell 8, southwest corner drainage	No	Thistle	9/1/2020	September 2020 OSDF Inspection	27			
3759	Cell 8, southwest corner drainage	No	Willow tree	9/1/2020	September 2020 OSDF Inspection	28			
3760	Cell 8, south drainage	No	Hackberry	9/1/2020	September 2020 OSDF Inspection	29			
3761	Cell 8, southeast corner drainage	No	Hackberry	9/1/2020	September 2020 OSDF Inspection	30			
3762	Cell 8, southeast corner drainage	No	Honeysuckle and hackberry	9/1/2020	September 2020 OSDF Inspection	31			

No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3763	Cell 8, east perimeter fence	No	Honeysuckle	9/1/2020	September 2020 OSDF Inspection	32			
3764	Cell 8, east perimeter fence and drainage	No	Thistle	9/1/2020	September 2020 OSDF Inspection	33			
3765	Cell 6, east perimeter fence	No	Ash tree	9/1/2020	September 2020 OSDF Inspection	34			
3766	Cell 5, east perimeter fence	No	Mulberry	9/1/2020	September 2020 OSDF Inspection	35			
3767	Cell 4, east perimeter fence	No	Honeysuckle and pear trees	9/1/2020	September 2020 OSDF Inspection	36			
3768	Cell 3, east perimeter fence	No	Dogwood	9/1/2020	September 2020 OSDF Inspection	37			
3769	Cell 3, east perimeter fence	No	Honeysuckle	9/1/2020	September 2020 OSDF Inspection	38			
3770	Cell 2, east perimeter fence	No	Woody vegetation	9/1/2020	September 2020 OSDF Inspection	39			
3771	Cell 1, east perimeter fence	No	Honeysuckle and dogwood	9/1/2020	September 2020 OSDF Inspection	40			
3772	Cell 1, east perimeter fence	No	Mulberry, thistle and pear tree	9/1/2020	September 2020 OSDF Inspection	41			
3773	Cell 1, northeast corner drainage	No	Ash, cedar, dogwood, and pear trees	9/1/2020	September 2020 OSDF Inspection	42			
3774	Cell 1, north perimeter fence	No	Cedar trees	9/1/2020	September 2020 OSDF Inspection	43			

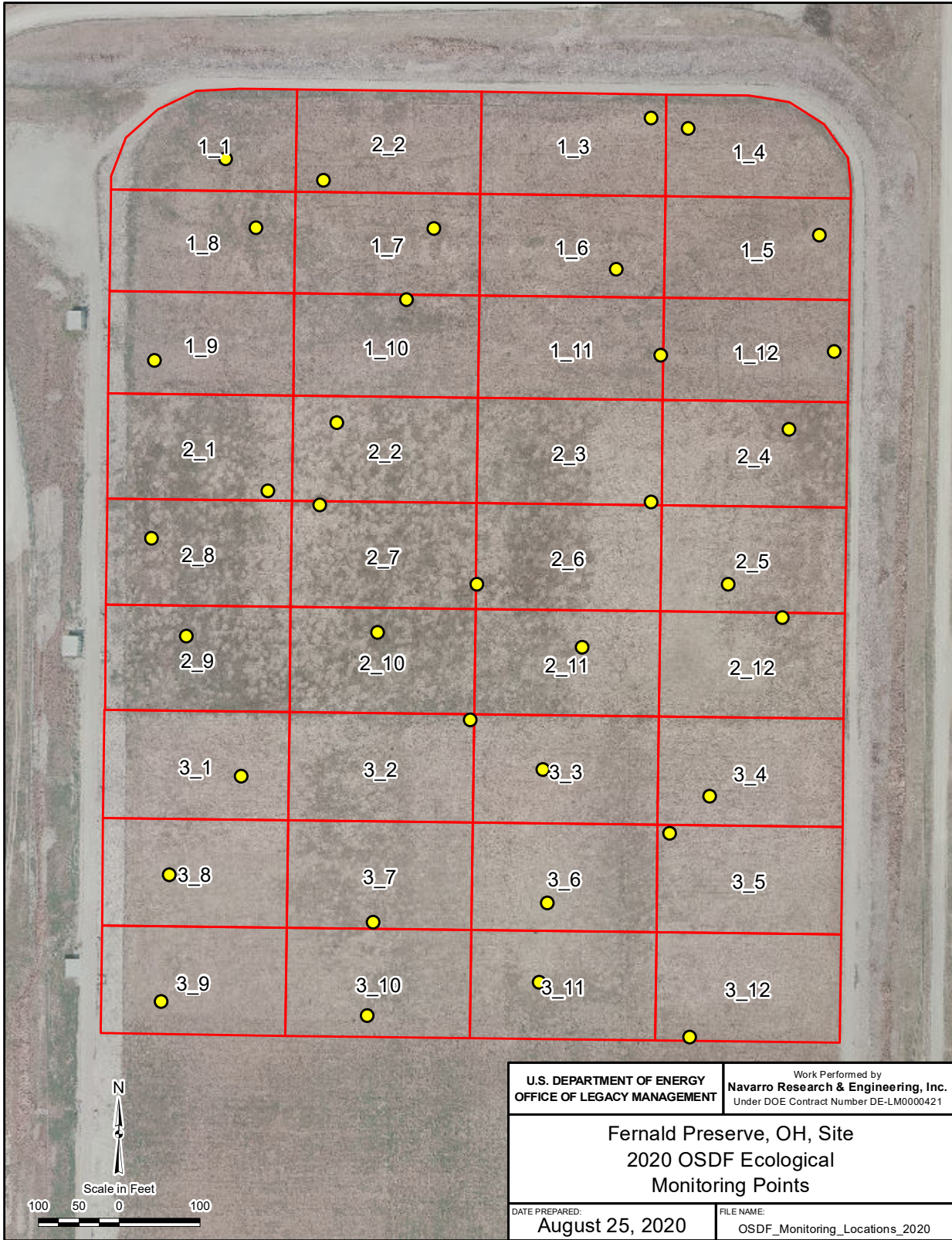
No.	Location	GPS?	Maintenance Item Identified	Date Identified	Origin of Finding	Inspection Finding No.	Resolution	Date of Resolution	Comments
3775	Cell 1, north drainage	No	Sycamore and cottonwood trees	9/1/2020	September 2020 OSDF Inspection	44			
3776	Cell 1, north drainage	No	Ash, cottonwood and dogwood trees	9/1/2020	September 2020 OSDF Inspection	45			
3777	Cell 1, north perimeter fence	No	Pear and elm trees	9/1/2020	September 2020 OSDF Inspection	46			
3778	Property boundary on Paddys Run Rd	No	Perimeter sign (S35) is twisted and damaged	9/2/2020	September 2020 point-specific institutional controls inspection	NA	Sign and post replaced	9/15/2020	
3779	Property boundary along Paddys Run Rd.	No	Perimeter sign (S23) is overgrown with vegetation	9/2/2020	September 2020 point-specific institutional controls inspection	NA			
3780	Property boundary on Paddys Run Rd. south of former Ecological Restoration Park	No	Perimeter sign (S13) is overgrown with vegetation	9/2/2020	September 2020 point-specific institutional controls inspection	NA			
3781	Property boundary around Duke Energy substation	No	Three perimeter signs (S9, S10 and S11) are overgrown	9/2/2020	September 2020 point-specific institutional controls inspection	NA			

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Attachment 6

OSDF Herbaceous Monitoring Locations, 2020

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Attachment 7

OSDF Herbaceous Cover Monitoring Summary, 2020

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2020 OSDF Implementation Monitoring Summary Table

Restoration Area Monitoring Subarea	On-Site Disposal Facility		
	Cell 1	Cell 2	Cell 3
Total Species	18	25	26
Native Species	15	13	16
Non-Native Species	3	12	10
Native Species (Percent)	83%	52%	62%
Relative Frequency of Native Species (Percent)	86%	55%	59%
Average Coefficient of Conservatism (CC), range between 0-10	3.5	1.6	1.8
Floristic Quality Assessment Index	15.0	7.8	9.0
Average Total Cover (Percent)	97%	97%	97%

Scientific Name	Common Name	Type	CC ^a	Relative Frequency		
				Cell 1	Cell 2	Cell 3
<i>Achillea millefolium</i>	YARROW	forb	1	4%		
<i>Ambrosia artemisiifolia</i>	COMMON RAGWEED	forb	0		4%	2%
<i>Andropogon gerardii</i>	BIG BLUESTEM	grass	5	19%	3%	2%
<i>Apocynum cannabinum</i>	INDIAN HEMP	forb	1			1%
<i>Asclepias syriaca</i>	COMMON MILKWEED	forb	1		6%	4%
<i>Aster laevis</i>	SMOOTH ASTER	forb	6			1%
<i>Aster novae-angliae</i>	NEW ENGLAND ASTER	forb	2	2%	6%	4%
<i>Aster pilosus</i>	AWL ASTER	forb	1		6%	9%
<i>Bouteloua curtipendula</i>	SIDE-OATS GRAMA GRASS	grass	8	9%		1%
<i>Calystegia sepium</i>	HEDGE BINDWEED	forb	1		3%	5%
<i>Echinacea purpurea</i>	PURPLE CONEFLOWER	forb	6	2%		
<i>Elymus canadensis</i>	CANADA WILD RYE	grass	6	2%	3%	7%
<i>Erigeron species</i>	FLEABANE SPECIES	forb	NDA	2%		
<i>Eupatorium altissimum</i>	TALL BONESET	forb	0		1%	2%
<i>Eupatorium serotinum</i>	LATE-FLOWERING BONESET	forb	2			1%
<i>Heliopsis helianthoides</i>	SMOOTH OXEYE	forb	5	2%		
<i>Monarda fistulosa</i>	WILD BERGAMOT	forb	3	2%		
<i>Panicum virgatum</i>	SWITCH GRASS	grass	4	5%	1%	
<i>Parthenocissus quinquefolia</i>	VIRGINIA CREEPER	vine	2			1%
<i>Ratibida pinnata</i>	GRAY-HEADED CONEFLOWER	forb	5	4%	6%	4%
<i>Rudbeckia hirta</i>	BLACK-EYED SUSAN	forb	1	2%		
<i>Solidago canadensis</i>	CANADA GOLDENROD	forb	1	7%	14%	11%
<i>Solidago rigida</i>	STIFF GOLDENROD	forb	8	5%	1%	
<i>Sorghastrum nutans</i>	INDIAN GRASS	grass	5	21%	1%	2%
<i>Agrostis species</i>	BENT GRASS SPECIES	grass	0		1%	
<i>Bromus japonicus</i>	JAPANESE BROME	grass	0		1%	1%
<i>Daucus carota</i>	QUEEN-ANNE'S-LACE	forb	0		6%	4%
<i>Dipsacus laciniatus</i>	CUT-LEAVED TEASEL	forb	0			1%
<i>Festuca pratensis</i>	MEADOW FESCUE	grass	0		6%	
<i>Medicago lupulina</i>	BLACK MEDICK	forb	0	2%	1%	2%
<i>Poa species</i>	BLUEGRASS SPECIES	grass	0	11%	11%	12%
<i>Pyrus callieryana</i>	CALLIERY PEAR	sm tree	0	2%		
<i>Secale cereale</i>	ANNUAL RYE	grass	0			1%
<i>Setaria faberi</i>	GIANT FOXTAIL GRASS	grass	0		3%	
<i>Setaria glauca</i>	YELLOW FOXTAIL GRASS	grass	0		1%	
<i>Setaria species</i>	FOXTAIL GRASS	grass	0			4%
<i>Solanum carolinense</i>	HORSE NETTLE	forb	0		4%	1%
<i>Sonchus species</i>	SOW-THISTLE SPECIES	forb	0		3%	
<i>Torilis arvensis</i>	FIELD HEDGE-PARSLEY	forb	0		6%	10%
<i>Trifolium hybridum</i>	ALSIKE CLOVER	forb	0		1%	5%

Shaded species are non-native

^aNDA = No determination available; species are not included in the average CC calculation

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