



Open Space District

Site Management Plans

Completed Operating Year 2015

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Atkinson Road

Updated: March, 2015

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Trail, Oak Hickory Woodland, Mitigation Bank	Monitor	<p>Monitor current/initial mitigation bank work in progress.</p> <p>Check and document boundaries and encroachments. Update encroachment inventory as needed.</p> <p>Develop and approve an encroachment policy.</p> <p>Make sure all trail, rules, and ownership signs are in place to ensure visitor safety.</p> <p>Conduct a vegetative survey.</p> <p>Conduct regular site inspections and document current conditions in the inspection log.</p>	<p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>2020</p> <p>Every Other Month</p>	<p>TW/P Open Space Staff</p> <p>TW/P Open Space Staff</p> <p>TW/P Open Space Staff, Supervisor, Trustee's</p> <p>TW/P Open Space Staff</p> <p>Contact, Open Space Staff</p> <p>TW/P Open Space Staff</p>
	Maintain	<p>Ensure earsonite marking posts, border signs, fencing and any other line markers are in place, in good condition, and replace/repair if needed.</p> <p>Provide and maintain trail amenities including but not limited to: the trail, bollards, benches, trash cans, birdhouses, dog waste centers, culverts, mowed trail edges, etc.</p> <p>Conduct visual trail inspections, especially after storm events. Mark unsafe trail conditions using flagging, cones, barricades, etc. immediately upon discovery.</p>	<p>Ongoing</p> <p>Weekly</p>	
	Restore	<p>As funds become available plant native seed, trees and shrubs using recommended species and quantities outlined in the INPC guidelines.</p> <p>Control invasive species commonly found in Lake County, and as described by Northeast Illinois Invasive Plant Partnership when needed using an integrated pest management approach.</p> <p>Re-introduce pre-settlement fire regime. Develop, implement, and evaluate burn plan.</p>	<p>2020</p> <p>2020</p> <p>2020</p>	<p>TW/P Open Space Staff</p>

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel (continued)	Restore (continued)	Monitor restoration work in progress-- Whenever possible create habitat for wildlife. This includes den trees, snags, brush piles, nurse logs, stumps, coarse woody debris, etc.	Ongoing 2020	TW/P Open Space Staff
		Document Include current and long-term management direction into Township site-management plans, restoration documentation, and all other pertinent information.	2017	Supervisor, TW/P Open Space Staff
	Communication	Photograph parcel when possible during various seasons and during different phases of a given project (usually before and after).	Ongoing	TW/P Open Space Staff
		Provide information and outreach to neighboring homeowners, homeowner association's, and the public of management direction, upcoming projects, volunteer opportunities, and rules of Township Open Space.	Ongoing	Supervisor, TW/P Open Space Staff, Conserve Lake County
	Recreation	Provide passive and active recreational opportunities when possible and appropriate such as hiking, biking, bird watching, cross country skiing, horseback riding, etc.	Ongoing	Supervisor, TW/P Open Space Staff
A. Oak Hickory Woodland	Monitor	Ensure all clearing and herbicide work is up to standards in contractor's work plan.	Ongoing	TW/P Open Space Staff
	Maintain	Photo document regeneration of native vegetation.	Spring & Fall	
		Cut and herbicide re-sprouts as needed.	2020	
		Implement burn plan.	2020	
	Monitor	Monitor current mitigation bank work in progress.	2015-2020	TW/P Open Space Staff
B. Mitigation Bank	Maintain	Cut and herbicide re-sprouts as needed.	2020	
		Keep drainages and culverts free flowing and free of obstructions	As needed	
	Communication	Follow up with the mitigation banker for updates in documentation, work schedules, banking credits, etc.	Ongoing	Supervisor, TW/P Open Space Staff
	Monitor	Visually inspect trail integrity and document. Make sure that all necessary signs and permits are in place. Make sure all rules signs are visible and in good condition.	Ongoing	TW/P Open Space Staff
	Maintain	Maintain trails by raking, mowing, etc. as needed to ensure safe conditions--	As needed	
C. Trail		Patch and seal coat asphalt trail every two years.	2015	Contactor

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Butterfield Road (Canterbury)

Updated: March, 2015

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Prairie, Wetland Mitigation Bank, Wooded Riparian Corridor, Trail, Mowed Park Lots, Stream Chanel	Monitor	<p>Monitor clearing in progress for new invasives and re-sprouts.</p> <p>Check and document boundaries and encroachments. Update encroachment inventory as needed.</p> <p>Develop and approve an encroachment policy.</p> <p>Make sure all trail, rules, and ownership signs are in place to ensure visitor safety.</p> <p>Conduct regular site inspections and document current conditions in the inspection log.</p> <p>Continue to update and complete the tree inventory for unit "A".</p> <p>Maintain agreement # 2761799 between Canterbury Homeowners Association and Township regarding tree planting and maintenance requirements for management unit "A".</p>	<p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Ongoing</p> <p>Every Other Month</p> <p>Ongoing</p> <p>Ongoing</p>	<p>TW/P Open Space Staff</p> <p>TW/P Open Space Staff</p> <p>TW/P Open Space Staff, Supervisor, Trustee's</p> <p>TW/P Open Space Staff</p>
	Maintain	<p>Conduct a vegetative survey.</p> <p>Ensure earsonite marking posts, border signs, fencing and any other line markers are in place, in good condition, and repair if needed.</p> <p>Install split rail fencing and bollards at all trail access points to limit unauthorized vehicular access.</p> <p>Provide and maintain trail amenities including but not limited to: the trail, bollards, Knox boxes, benches, trash cans, birdhouses, dog waste centers, culverts, mowed trail edges, etc.</p> <p>Sealcoat asphalt trailheads every two years.</p> <p>Conduct visual trail inspections, especially after storm events. Repair trail washouts and unsafe trail conditions or mark using flagging, cones, barricades, etc. immediately upon discovery.</p>	<p>2019</p> <p>Annually</p> <p>2015-2016</p> <p>Ongoing</p> <p>2015</p> <p>Weekly</p>	<p>Contractor, Open Space Staff</p> <p>TW/P Open Space Staff</p>

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel (continued)	Restore	As funds become available plant native seed, trees and shrubs using recommended species and quantities outlined in the INPC guidelines.	Annually	TWP Open Space Staff
		Control invasive species commonly found in Lake County, and as described by Northeast Illinois Invasive Plant Partnership when needed using an integrated pest management approach.	Ongoing	
		Whenever possible create habitat for wildlife. This includes den trees, snags, brush piles, nurse logs, stumps, coarse woody debris, etc.	Ongoing	
		Re-introduce pre-settlement fire regime. Implement and evaluate burn plan.	2016	TWP Open Space Staff, Contractor, Volunteers
	Document	Include current and long term management direction into Township site management plans, restoration documentation, and all other pertinent information.	2017	Supervisor, TWP Open Space Staff
		Photograph parcel when possible during various seasons and during different phases of a given project (usually before and after).	Ongoing	TWP Open Space Staff
	Communication	Provide information and outreach to neighboring homeowners, homeowner associations, and the public of management direction, upcoming projects, volunteer opportunities, and rules of Township Open Space.	Ongoing	Supervisor, TWP Open Space Staff, Conserve Lake County
		Provide passive and active recreational opportunities when possible and appropriate such as hiking, biking, birdwatching, cross-country skiing, horseback riding, etc.	Ongoing	Supervisor, TWP Open Space Staff
	Recreation	Maintain and mow grass, edge beds and sidewalk edges, trim trees, install mulch, pull weeds, etc. in order to provide an aesthetically pleasing view for users and nearby residents.	Seasonally as needed	TWP Open Space Staff
		Evaluate the need to herbicide and/or fertilize turf grass.	Seasonally as needed	
A. North Prairie, Wetlands, Mowed park lots, Trail	Maintain	Evaluate the need for trail resurfacing.	2018	TWP Open Space Staff, Supervisor

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel	
A. North Prairie, Wetlands, Mowed park lots, Trail (continued)	Restore	Conduct prescribed burn in accordance with burn plan.	2016	TWP Open Space Staff, Contractor, Volunteers	
		Enhance and encourage short grass prairie.	Annually	TWP Open Space Staff	
		Conduct follow-up treatments to invasive plants.	2015		
		Inter-seed in herbicided and burned areas with native short grass prairie species, plant trees and shrubs as funding becomes available.	2015		
		Trim and prune planted trees. Remove dead ash trees.	2015-2018		
		Seasonally adjust water level to aid in controlling invasive wetland vegetation. Stop logs are to be raised in the winter and lowered in the spring.	Seasonally as needed	TWP Open Space Staff	
		Finish installing permanent easement marking posts.	Spring 2015	Contractor, TWP Open Space Staff	
		Maintain and mow grass, trim trees, install muleh, pull weeds, etc. in order to provide an aesthetically pleasing view for residents.	Seasonally as needed	TWP Open Space Staff	
		Continue initial clearing and herbiciding of invasive trees.	2015-2016		
		Conduct follow-up treatments to areas already cleared of invasives.	Ongoing		
B. Mitigation Bank, Prairie, Wetlands, Trail	Restore	Control invasive species commonly found in Lake County, and as described by Northeast Illinois Invasive Plant Partnership. Especially focus on control of phragmites and reed canary grass.	2015	Contractor, TWP Open Space Staff	
		Conduct large-scale herbicide project to control wetland invasives such as phragmites and reed canary grass.	2015	Contractor, TWP Open Space Staff	
		Keep drainage free flowing and free of obstructions. Continue to follow recommendations outlined in the Lake County Storm Water Management plan. Seek grant opportunities for restoration.	As needed	TWP Open Space Staff	
		Evaluate footpath usage and possible improvements.	2015	Supervisor, TWP Open Space Staff	
		Conduct large-scale herbicide project to control wetland invasives such as phragmites and reed canary grass.	2015	Contractor, TWP Open Space Staff	
		Continue initial clearing and herbiciding of invasive trees.	2015-2016	TWP Open Space Staff	
		Conduct follow-up treatments to areas already cleared of invasives.	Ongoing		
	C. Riparian Corridor, Mitigation Bank, Stream Channel, Wetland	Restore			
		Maintain			

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Casey North (Oak Openings)

Updated: March, 2015

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Preserve: Retired Agriculture Field, Successional Woodland Restoration area, Oak Woodland, Wet mesic Floodplain Forest, Wooded Riparian Corridor, Trail, Parking Lot, Agriculture Field	Monitor	Conduct a vegetative survey excluding agriculture fields. Conduct regular site visits. Inspect boundaries and encroachments. Update the encroachment inventory. Document conditions. Conduct visual trail inspections, especially after storm events. Repair trail washouts and unsafe trail conditions or mark using flagging, cones, barricades, etc. immediately upon discovery. Evaluate burn plans and implement prescribed burns in accordance with burn plans. Continue to monitor and prevent creek bank erosion by installing erosion control measures. Evaluate the need for trail resurfacing.	2016 Every Other Month Weekly Annually Ongoing 2015	Contractor TWP Open Space Staff TWP Staff, Conserve Lake County, Volunteers TWP Open Space Staff TWP Staff, Supervisor
	Maintain	Provide and maintain limited, appropriate visitor amenities such as: trail, bollards, parking lot, portable toilet, picnic table, garbage cans, kiosks, benches, dog waste receptacles, etc. Ensure earsonite marking posts, border signs, fencing and any other line markers are in place, in good condition, and replace/repair if needed. Maintain INPC signage along boundaries. Make sure all trail, rules, and ownership signs are in place to ensure visitor safety. Install equestrian dismount blocks at horse trail head and the Rt. 45 underpass. Install "no snowmobile" signage seasonally to discourage snowmobile usage.	Annually Annually Annually 2015 Winter 2015-16	TWP Open Space Staff TWP Open Space Staff TWP Open Space Staff TWP Open Space Staff

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
Entire Preserve (continued)	Restore	Install seed, trees, shrubs, and plugs that meet INPC specs as funds become available and when appropriate.	As needed	TWP Open Space Staff, Volunteers
		Control invasive species commonly found in Lake County, and as described by Northeast Illinois Invasive Plant Partnership when needed using an integrated pest management approach.	Annually	
		Continue to explore future opportunities for volunteer workdays.	Monthly	TWP Staff, Supervisor, Conserve Lake County
		Explore opportunities to implement the board-approved Casey Road Land Use Plan.	2015-2016	TWP Open Space Staff, Supervisor, Conserve Lake County
	Document	Re-introduce pre-settlement fire regime. Implement and evaluate burn plan.	2016	TWP Open Space Staff, Volunteers, Conserve Lake County
		Photograph individual management units during growing season and dormant season.	Annually	TWP Open Space Staff
		Complete and submit INPC annual report.	Annually Feb. 15	TWP Open Space Staff, Supervisor
		Include current and long-term management direction into Township site-management plans, restoration documentation, and all other pertinent information.	2017	
	Communication	Obtain information including but not limited to: volunteer-workday results, vegetation monitoring, bluebird monitoring, annual easement-monitoring, etc.	Monthly	
		Continue communications with INPC and ICFPD.	Ongoing	TWP Staff, Supervisor, Conserve Lake County
Recreation	Provide information and outreach to neighboring homeowners, homeowner associations, local horse stables, and the public of management direction, upcoming projects, volunteer opportunities, and rules of Township Open Space.	Ongoing	Supervisor, TWP Open Space Staff, Conserve Lake County	
	Provide passive and active recreational opportunities when possible and appropriate such as hiking, biking, birdwatching, cross-country-skiing, horseback riding, etc.	Ongoing	Supervisor, TWP Open Space Staff	
A. Retired Agriculture Field	Restore	Control invasives: reed canary grass and Canada thistle, and clover.	Annually	TWP Open Space Staff, Volunteers
		Prescribe burn in accordance with burn plan.	2016	

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
B. Riparian Corridor	Maintain	Continue initial clearing of the creek corridor removing invasive species:	Winter 2015-2016	TWP Open Space Staff, Volunteers, Conserve Lake County
		Conduct follow-up treatments to areas already cleared of invasives:	Ongoing	
		Control invasives: buckthorn, yellow flag iris, phragmites, honey suckle, barberry, and reed canary grass:	Annually	
		Prescribe burn in accordance with burn plan.	Fall 2016	
C. Retired Agriculture Field	Restore	Keep drainage free flowing and free of obstructions. Continue to follow recommendations outlined in the Lake County Storm Water Management plan. Seek grant opportunities for restoration.	Annually	TWP Open Space Staff, Volunteers
		Monitor erosion of creek banks and gullies and take appropriate action when needed.	Ongoing	
		Control invasives: reed canary grass, sweet clover, woody invasives, and brome:	Annually	
		Prescribe burn in accordance with burn plan.	2016	
D. Mesic Oak Woodland	Restore	Conduct initial clearing removing buckthorn, honeysuckle and Japanese barberry.	Winter 2016-17	TWP Open Space Staff, Volunteers
		Prescribe burn in accordance with burn plan.	2017-18	
		Prescribe burn in accordance with burn plan.	2015	
		Partner with LCFPD to manage this unit in tandem with adjacent parcel (Almond Marsh) when appropriate.	Ongoing	
E. Mesic Oak Woodland	Restore	Continue clearing woody invasives moving north to property line.	Winter 2016-17	TWP Open Space Staff
		Conduct follow-up treatments to areas already cleared of invasives:	Ongoing	
		Maintain Almond Marsh footpath and trail markers, spread woodchips as needed.	Annually	
		Control invasives: reed canary grass, brome, Canada thistle, garlic mustard, buckthorn and dunes rocket.	Annually	
F. Savanna	Restore	Prescribe burn in accordance with burn plan.	2015	TWP Open Space Staff, Volunteers, Conserve Lake County

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
G. Retired Agriculture Field, Walnut Grove	Restore	Control invasives: Canada thistle, reed canary grass, multiflora rose and brome. Conduct follow-up treatments to areas already cleared of invasives.	Annually Ongoing	TWP Open Space Staff TWP Open Space Staff
H. Ketting Wetland Mitigation Bank	Restore	Control invasives: reed canary grass, phragmites, and Canada thistle. Prescribe burn in accordance with burn plan.	Ongoing 2015	TWP Open Space Staff TWP Staff, Volunteers, Conserve Lake County
I. Agriculture Fields	Monitor	Conduct large scale herbicide project to control wetland invasives such as phragmites and reed canary grass. As farm license expires (12-31-2015), continue to review license and explore restoration opportunities outlined in the Board approved Casey-Road Land Use Plan.	2016 2015	Contractor, TWP Open Space Staff Supervisor, Trustees, TWP Open Space Staff
J. Baxter Grove	Monitor	Review ingress and egress easement (driveway) with landowner. Seek grant opportunities to remediate priority erosion issues, as per the Bull Creek/Bull Brook Watershed Plan, Casey Road Land Use Plan, Liberty Prairie Master Plan. Review and evaluate farm license (expires 11-30-17).	2015 Ongoing Spring 2017	Supervisor, TWP Open Space Staff Supervisor, Conserve Lake County, TWP Open Space Staff Supervisor, Trustees, TWP Open Space Staff

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Casey South (Liberty Prairie)

Updated: March, 2015

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel	
Entire Parcel: Grammanoid Fen, Prairie, Retired Agriculture Field, Sedge Meadow, Riparian Corridor, Agriculture Field, Woodland, Hillside Seep, Sedge Meadow, Trail T/E Species: Slender Bog Arrow Grass, Fringed Gentian, Grass of Parnassus	Monitor	Monitor T/E species (provide copy to Township).	Annually	TWP Staff, Conserve Lake County, Volunteers	
		Evaluate burn plan and implement prescribed burn in accordance with burn plan.	Annually		
		Check and document boundaries and encroachments. Update encroachment inventory as needed. Develop an encroachment policy.	Every Other Month		TWP Open Space Staff
		Conduct visual trail inspections, especially after storm events. Repair trail washouts and unsafe trail conditions or mark using flagging, cones, barricades, etc. immediately upon discovery.	Weekly		
		Tree and shrub screen allowed along property edges to control off-road vehicle access.	Annually		
		Conduct a vegetative survey.	2017		Contractor
		Monitor trail connection within the nature preserve to nearby Township-owned parcel.	2015		TWP Open Space Staff
		Sealcoat boardwalks every two years.	2015		TWP Open Space Staff
		Install equestrian dismount blocks at boardwalks.	2015		
		Provide and maintain limited, appropriate visitor amenities such as: trail, bollards, garbage cans, benches, dog waste receptacles, etc.	Ongoing		
		Maintain INPC signage along boundaries. Make sure all trail, rules, and ownership signs are in place to ensure visitor safety.	Annually		
		Conduct a site survey.	2015		Contractor, TWP Open Space Staff
	Ensure earsonite marking posts, border signs, fencing and any other line markers are in place, in good condition, and replace/repair if needed.	Annually		TWP Open Space Staff	

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel	
Entire Parcel (continued)	Restore	Control invasive species commonly found in Lake County, and as described by Northeast Illinois Invasive Plant Partnership when needed using an integrated pest management approach.	Ongoing	TWP Open Space Staff, Volunteers, Conserve Lake County	
		As funds become available plant native seed, trees and shrubs using recommended species and quantities outlined in the INPC guidelines.	Annually		
		Whenever possible create habitat for wildlife. This includes den trees, snags, brush piles, nurse logs, stumps, coarse woody debris, etc.	Ongoing		
		Re-introduce pre-settlement fire regime. Implement and evaluate burn plan.	2016		
	Document	Include current and long-term management direction into Township site-management plans, restoration documentation, and all other pertinent information.	Ongoing	TWP Open Space Staff, Supervisor	
		Photograph individual management units during growing season and dormant season.	Annually	TWP Open Space Staff	
	Communication	Complete and submit INPC annual report.	Ongoing	Annually Feb. 1	TWP Open Space Staff, Supervisor
		Obtain information including but not limited to: volunteer workday results, vegetation monitoring, bluebird monitoring, annual easement monitoring, etc.	Ongoing	Monthly	TWP Open Space Staff
		Obtain information regarding shallow and deep well monitoring.	Ongoing	Ongoing	
		Continue communications with INPC and LCFFPD.	Ongoing	Ongoing	Supervisor, TWP Staff, INPC, LCFFPD
		Provide information and outreach to neighboring homeowners, homeowner associations, local horse stables, and the public of management direction, upcoming projects, volunteer opportunities, and rules of Township Open Space.	Ongoing	Ongoing	Supervisor, TWP Open Space Staff, Conserve Lake County
	Recreation	Provide passive and active recreational opportunities when possible and appropriate such as hiking, biking, birdwatching, cross-country skiing, horseback riding, etc.	Ongoing	Ongoing	Supervisor, TWP Open Space Staff
	Survey	Conduct a site boundary survey.	2015	2015	Contractor, TWP Open Space Staff

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
A: Grammanoid Fen T/E Species: Slender Bog Arrow Grass	Restore	Conduct prescribed burn in accordance with the burn plan.	Fall 2016	TWP Staff, Conserve Lake County, Volunteers
		Control invasives: reed canary grass, cattails, purple loosestrife, oriental bittersweet and multiflora rose.	Ongoing	TWP Open Space Staff, Volunteers
		Conduct follow up treatments to areas already cleared of invasives.	Ongoing	
B: Prairie Wet prairie, Wet mesic prairie, Mesic Prairie	Monitor	Conduct a vegetative survey of plants of concern, obtain and track results.	Annually	TWP Open Space Staff, Volunteers
	Restore	Conduct prescribed burn in accordance with the burn plan.	Fall 2016	TWP Open Space Staff, Conserve Lake County, Volunteers
		Control invasives: reed canary grass, purple loosestrife, Canada thistle, grey dogwood and buckthorn, and phragmites. Collect and interseed in accordance with INPC seed collecting protocol.	Annually	TWP Open Space Staff, Volunteers
C. Replanted Prairie		Conduct large scale herbicide project to control wetland invasives such as phragmites and reed canary grass.	2016	Contractor, TWP Open Space Staff
	Monitor	Monitor plants of concern and document.	Ongoing	
		Conduct follow up treatments to areas already cleared of invasives.	Annually	Conserve Lake County, Volunteers
D. Sedge Meadow	Restore	Conduct prescribed burn in accordance with the burn plan.	Fall 2016	TWP Staff, Conserve Lake County, Volunteers
		Control invasives: reed canary grass, purple loosestrife, Canada thistle, grey dogwood and buckthorn. Monitor for oriental bittersweet.	Annually	TWP Open Space Staff, Volunteers
		Conduct prescribe burn in accordance with the burn plan.	Fall 2016	TWP Staff, Conserve Lake County, Volunteers
E. Riparian Corridor		Control Invasive: reed canary grass, cattails, and phragmites.	Annually	TWP Staff, Volunteers
		Conduct large scale herbicide project to control wetland invasives such as phragmites and reed canary grass.	2016	Contractor, TWP Open Space Staff
	Restore	Control invasives: garlic mustard, reed canary grass, oriental bittersweet, brome, dames rocket, clover, and buckthorn. Conduct follow up treatments .Continue to remove cottonwoods. Interseed cleared areas with seed collected on site.	Annually Winter 2015 Fall 2015	TWP Open Space Staff
	Conduct prescribed burn in accordance with the burn plan.	Fall 2016	TWP Staff, Conserve Lake County, Volunteers	
	Conduct large scale herbicide project to control wetland invasives such as phragmites and reed canary grass.	2016	Contractor, TWP Open Space Staff	

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
F. Retired Agriculture Field	Restore	Conduct prescribed burn in accordance with the burn plan.	Fall 2016	TWP Staff, Conserve Lake County, Volunteers
		Control invasives: Canada thistle and reed canary grass.	Annually	TWP Open Space Staff
		Interseed in fall after burns with collected seed on site.		
G. Retired Agriculture Field	Restore	Control reed canary grass, buckthorn, teasel, clover, brome, and dandelion.	Annually	TWP Open Space Staff
		Interseed in fall after burns with collected seed on site.		
		Conduct prescribed burn in accordance with the burn plan.	Fall 2016	TWP Staff, Conserve Lake County, Volunteers
	Maintain	Maintain Birdscaping project plantings by watering and fencing.	2015-2016	TWP Open Space Staff
H. Woodland, Remnant Prairie, Restored Prairie	Restore	Conduct prescribed burn in accordance with the burn plan.	Fall 2016	TWP Staff, Conserve Lake County, Volunteers
		Control invasives: buckthorn, oriental bittersweet, reed canary grass, and Canada thistle.	Annually	TWP Open Space Staff
		Interseed with collected seed from site.		
		Continue clearing of invasives working east towards property line.	2016-17	TWP Open Space Staff, Volunteers
		Conduct follow up treatments to areas already cleared of invasives.	Ongoing	
I. Hillside Seep	Restore	Conduct prescribed burn in accordance with the burn plan.	Fall 2016	TWP Staff, Conserve Lake County, Volunteers
		Control invasives: purple loosestrife and cattails.	Annually	TWP Open Space Staff
		Conduct follow up treatments to areas already cleared of woody invasives.		
J. Sedge Meadow	Monitor	Install signage to prevent future damage to site. Control invasives as needed.	Annually	TWP Staff, Volunteers
K. Retired Agriculture Field	Restore	Continue to control invasives.	Annually	TWP Open Space Staff
		Conduct prescribed burn in accordance with the burn plan.	Fall 2016	TWP Staff, Conserve Lake County, Volunteers

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
L. Bottomland Successional Woods	Monitor	Monitor WAB head-cut project. Evaluate implementing the next phase of the multi-phase proposal.	2015-2016	Supervisor, TWP Open Space Staff
	Restore	Seek grant opportunities to remove woody species and restore creek corridor.	Ongoing	Supervisor, Conserve Lake County, LCSMC
M. Impoundment	Monitor	Begin restoration clearing as outlined in the SMC plan, Casey road land use plan, Liberty prairie master plan.	2016-2018	Supervisor, TWP Open Space Staff
	Monitor	Monitor the need for a dam inspection.	2015	Supervisor, TWP Open Space Staff
	Restore	Conduct prescribed burn in accordance with the burn plan.	Spring 2015	TWP Staff, Conserve Lake County, Volunteers
	Monitor	Conduct initial clearing of trees and brush.	2020	TWP Open Space Staff
N. Agriculture Field, Access Drive, Stockpile Area, Successional Woodland	Monitor	As farm license expires (12-31-2015), continue to review license and explore restoration opportunities outlined in the Board approved Casey Road Land Use Plan.	2015	Supervisor, TWP Staff, Trustees
	Restore	Explore opportunities to install additional parking, trail head and trail connection.	Ongoing	Supervisor, TWP Staff, Trustees
O. Retired Pasture	Restore	Seek grant opportunities to remediate priority erosion issues, as per the Bull Creek/Bull Brook Watershed Plan, Casey Road Land Use Plan, Liberty Prairie Master Plan.	Ongoing	Supervisor, Conserve Lake County, TWP Open Space Staff
	Monitor	Locate and review ingress/egress easement.	Annually	TWP Open Space Staff, Supervisor
	Restore	Obtain information related to the deep well monitoring station.	Ongoing	TWP Open Space Staff
	Restore	Continue to control invasives.	Annually	TWP Open Space Staff
	Restore	Conduct follow-up treatments to areas already cleared of woody invasives.	Ongoing	
P. Agriculture Field	Monitor	Conduct prescribed burn in accordance with the burn plan.	Spring 2015	TWP Staff, Conserve Lake County, Volunteers
	Restore	Install seed, trees, shrubs, and plugs that meet INPC specs as funds become available and when appropriate.	As needed	TWP Open Space Staff
	Monitor	As farm license expires (12-31-2015), continue to review license and explore restoration opportunities outlined in the Board approved Casey Road Land Use Plan.	2015	Supervisor, TWP Staff, Trustees
	Restore	Seek grant opportunities to remediate priority erosion issues, as per the Bull Creek/Bull Brook Watershed Plan, Casey Road Land Use Plan, Liberty Prairie Master Plan.	Ongoing	Supervisor, Conserve Lake County, TWP Open Space Staff

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Kildare

Updated: March, 2015

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Bottomland Woods, Wooded Riparian Corridor, Easement	Monitor	Check and document boundaries and encroachments. Update encroachment inventory as needed. Develop and approve an encroachment policy.	Ongoing	TWP Open Space Staff
		Make sure rules, and ownership signs are in place to ensure visitor safety.	Ongoing	TWP Open Space Staff, Supervisor, Trustee's
		Conduct regular site inspections and document current conditions in the inspection log.	Every Other Month	TWP Open Space Staff
	Maintain	Ensure earsonite marking posts, border signs, fencing and any other line markers are in place, in good condition, and replace/repair if needed. Keep drainage free flowing and free of obstructions:	Ongoing	
	Document	Include current and long term management direction into Township site management plans, restoration documentation, and all other pertinent information. Photograph parcel when possible during various seasons and during different phases of a given project (usually before and after):	Annually	TWP Open Space Staff, Village of Libertyville
	Communication	Provide information and outreach to neighboring homeowners, homeowner associations, and the public of management direction, upcoming projects, volunteer opportunities, and rules of Township Open Space.	2017	Supervisor, TWP Open Space Staff
	Recreation	Explore passive and active recreational opportunities when possible and appropriate such as hiking, biking, bird watching, cross country skiing, ice skating, rink, etc.	Ongoing	TWP Open Space Staff
			Ongoing	Supervisor, TWP Open Space Staff, Conserve Lake County
			Ongoing	Supervisor, TWP Open Space Staff

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
A. Woodland	Monitor	Ensure easement marking posts, border signs, fencing and any other line markers are in place, in good condition, and replace/repair if needed.	Every Other Month	TWP Open Space Staff
		Conduct regular site inspections and document current conditions in the inspection log. Update encroachment inventory.	Every Other Month	
B. Wooded Riparian Corridor	Monitor	Keep drainage free flowing and free of obstructions. Continue to follow recommendations outlined in the Lake County Storm Water Management plan.	Annually	TWP Open Space Staff
		Seek grant opportunities for restoration. Seek opportunities for volunteer workdays.	Annually	
C. Ingress/Egress Easement	Monitor	Review and monitor ingress/egress easement.	Annually	Supervisor, TWP Open Space Staff
		Continue to document encroachments, violations, and locate and review agreement for maintenance of mowed park area.	Ongoing	

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Lindholm Park

Updated: March, 2015

Map Symbol: Management Unit (List all communities)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Playground, Athletic Fields, Trail, Woodland, Retired Turf	Monitor	Check and document boundaries and encroachments. Update encroachment inventory as needed.	Ongoing	TWVP Open Space Staff
		Develop and approve an encroachment policy.	Ongoing	TWVP Open Space Staff, Supervisor, Trustee's
		Make sure all trail, rules, and ownership signs are in place to ensure visitor safety.	Ongoing	TWVP Open Space Staff
		Conduct regular site inspections and document current conditions in the inspection log.	Every Other Month	
		Conduct regular inspections of playground equipment.	Bi-annually	
		Conduct visual trail inspections, especially after storm events. Repair trail washouts and unsafe trail conditions or mark using flagging, cones, barricades, etc. immediately upon discovery.	Weekly	
		Provide and maintain trail amenities including but not limited to: the trail, bollards, Knox boxes, benches, trash cans, birdhouses, dog waste centers, eulverts, mowed trail edges, athletic fields, etc.	Seasonally	TWVP Open Space Staff
		Ensure earsonite marking posts, border signs, fencing and any other line markers are in place, in good condition, and repair if needed.	Monthly	
		Maintain and mow grass, edge beds and sidewalk edges, trim trees, mulch, pull weeds, etc. in order to provide an aesthetically pleasing view for users and nearby residents.	Seasonally as needed	
		Evaluate the need to herbicide and/or fertilize turf grass.		
Restore		As funds become available plant native seed, trees and bushes.	Ongoing	TWVP Open Space Staff
		Re-introduce pre-settlement fire regime. Develop, implement, and evaluate burn plan.	2015	
		Whenever possible create habitat for wildlife. This includes den trees, snags, brush piles, nurse logs, stumps, coarse woody debris, etc.	Ongoing	
		Explore and provide opportunities for volunteers.	Ongoing	TWVP Open Space Staff

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel	
Entire Parcel (continued)	Document	Include current and long-term management direction into Township site-management plans, restoration documentation, and all other pertinent information.	2017	Supervisor, TWP Open Space Staff	
		Photograph parcel when possible during various seasons and during different phases of a given project (usually before and after).	Ongoing	TWP Open Space Staff	
	Communication	Provide information and outreach to neighboring homeowners, homeowner associations, and the public of management direction, upcoming projects, volunteer opportunities, and rules of Township Open Space.	Ongoing	Supervisor, TWP Open Space Staff, Conserve Lake County	
	Recreation	Provide passive and active recreational opportunities when possible and appropriate such as hiking, biking, bird watching, cross-country skiing, horseback riding, etc.	Ongoing	Supervisor, TWP Open Space Staff	
	Site Survey	Survey property boundaries.	2016	Contractor, TWP Open Space Staff	
	A: Athletic Fields Infield, Outfield	Maintain (Infield)	Condition surface, evaluate annually.	As needed	Contractor, TWP Open Space Staff
			Drag field weekly as weather permits.	Seasonal	TWP Open Space Staff
			Hire contractor for major retrofits including adding of clay and conditioner every two years or as needed.	2015	Contractor, TWP Open Space Staff
			Herbicide common herbaceous turf weeds including clover, dandelion, creeping charlie, and chickweed.	Annually	TWP Open Space Staff
	B: Playground	Maintain (Outfield)	Inspect outfield every week during ball season for holes, divots and depressions. Repair or flag immediately and log repairs on inspection form.	Seasonally	
Inspect		Complete inspection, fill out inspection form and repair deficiencies immediately.	April & October	TWP Open Space Staff	
Maintain		Add playground approved woodchips to recommended levels.	As needed		
		Prepare to remove the remaining ash trees and replace with native plant material.	2015	Supervisor, TWP Open Space Staff	
	Continue to maintain native planting bed.	2015			
	Seal coat sidewalks every two years or as needed.	Summer 2015			

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
B: Playground (continued)	Maintain (continued)	Update playground equipment. Evaluate need for replacement or repairs.	As needed	Supervisor, TWP Open Space Staff
C. Parking Lot	Maintain	Seal coat parking lot every two years.	Summer 2015	Supervisor, TWP Open Space Staff
D. Oak Woodland	Restore	Install remaining bollard and fencing at LCPW easement road to limit unauthorized vehicular access.	2015	TWP Open Space Staff
		Cut and herbicide invasives including buckthorn, Canada thistle and reed canary grass.	Ongoing	
		Prescribe burn in accordance with burn plan.	Spring 2015	
		Conduct a follow-up treatment of herbicide to invasives.	2015	
		As funds become available plant native seed, trees and shrubs using recommended species and quantities outlined in the INPC guidelines.	Ongoing	
E. Retired Turf	Maintain	Prescribe burn in accordance with burn plan.	Spring 2015	TWP Open Space Staff
		Herbicide invasives: Canada thistle, teasel and buckthorn.	Ongoing	
	Monitor	Evaluate methods for drain tile repair, removal, and remediation.	2015	Supervisor, TWP Open Space Staff, LCFPD, SMC, Corps of Engineers
		Obtain permits and information from the Corps of Engineers for drain tile removal.	2015	
		Communication	Continue conversations with SMC regarding BMP's for overland flow and water drainage. Continue to discuss drainage concerns and issues with LCFPD.	

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Milwaukee Avenue

Updated: March, 2015

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Restored Short Grass Prairie, Agriculture Field, Wooded Riparian Corridor, Woodland, Retired Pasture, Leased Paddock	Monitor	Check and document boundaries and encroachments. Update encroachment inventory as needed. Develop and approve an encroachment policy. Make sure rules and ownership signs are in place to ensure visitor safety. Conduct regular site inspections and document current conditions in the inspection log. As farm licenses expire continue to evaluate license and restoration opportunities.	Ongoing	TWTP Open Space Staff
	Maintain	Monitor and discuss future maintenance needs and key personnel regarding Milwaukee Road sidewalk. Ensure earsonite marking posts, border signs, fencing and any other line markers are in place, in good condition, and replace/repair if needed.	Ongoing	Supervisor, Trustees, Advisory Committee, TWP Staff
	Restore	Re-introduce pre-settlement fire regime. Develop, implement, and evaluate burn plan. Seek and apply for restoration grant and for volunteer opportunities. As funds become available plant native seed, trees and/or shrubs using recommended species and quantities outlined in the INPG guidelines.	Spring 2015 Annually Ongoing	TWTP Open Space Staff, Volunteers Supervisor, Conserve Lake County, TWP Open Space Staff TWP Open Space Staff

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel	
Entire Parcel (continued)	Restore (continued)	Control invasive species commonly found in Lake County, and as described by Northeast Illinois Invasive Plant Partnership when needed using an integrated pest management approach.	Ongoing	TWP Open Space Staff, Volunteers	
		Whenever possible create habitat for wildlife. This includes den trees, snags, brush piles, nurse logs, stumps, coarse woody debris, etc.	Ongoing	TWP Open Space Staff	
	Document	Coordinate effort to restore in conjunction with LCFPD and Conserve Lake County.	Ongoing	TWP Open Space Staff, LCFPD, Conserve Lake County	
		Include current and long term management direction into Township site management plans, restoration documentation, and all other pertinent information.	2017	Supervisor, TWP Open Space Staff	
	Communication	Photograph parcel when possible during various seasons and during different phases of a given project (usually before and after).	Ongoing	TWP Open Space Staff	
		Provide information and outreach to neighboring homeowners, homeowner associations, and the public of management direction, upcoming projects, volunteer opportunities, and rules of Township Open Space.	Ongoing	Supervisor, TWP Open Space Staff, Conserve Lake County	
	Recreation	Provide passive and active recreational opportunities when possible and appropriate such as hiking, biking, birdwatching, cross country skiing, horseback riding, etc.	Ongoing	TWP Open Space Staff	
		Site survey and Signage	2017	Supervisor, Contractor	
	A. Restored Short Grass Prairie	Review farm license	Survey property boundaries and install permanent marking posts.	2017	Supervisor, Contractor
			Install ownership signs along Milwaukee Avenue.	Fall 2016	TWP Open Space Staff
B. Agriculture Field	Review farm license	Conduct a preliminary vegetative survey.	2016	TWP Open Space Staff, LCFPD	
		Review and evaluate license details.	Annually	Supervisor, TWP Open Space Staff	
		As farm license expires (12-1-2015), continue to evaluate license and restoration opportunities as per the Casey Road Land Use Plan.	Summer 2015	Supervisor, Trustees, Advisory Committee, TWP Staff	

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
C. Wooded Riparian Corridor	Seek grant opportunities	Seek and apply for restoration grant to restore native riparian community.	Ongoing	Supervisor, Conserve Lake County, TWP Open Space Staff
	Monitor	Monitor creek flow and obstructions under Milwaukee Road underpass box culvert.	Ongoing	TWP Open Space Staff
D. Woodland	Monitor	Explore restoration opportunities through grants and volunteer opportunities.	Monthly	TWP Open Space Staff
E. Retired Pasture	Restore	Prescribe burn and broadcast native seed to promote native vegetation. Mow and herbicide to reduce invasive plant populations.	Annually	TWP Open Space Staff, Volunteers
F. Leased Paddock	Review farm license	Review and evaluate farm license as license expires (5-31-2017).	Fall 2016	Supervisor, Trustees, TWP Open Space Staff
G. Agriculture Field	Review farm license	Review and evaluate farm license as license expires (3-1-16).	Fall 2015	Supervisor, Trustees, TWP Open Space Staff

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Old School Road

Updated: March, 2015

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Woodland, Lowland Woods, Floodplain	Monitor	Check and document boundaries and encroachments. Update encroachment inventory as needed.	Ongoing	TWTP Open Space Staff
		Develop and approve an encroachment policy.	Ongoing	TWTP Open Space Staff, Supervisor, Trustee's
Maintain	Maintain	Make sure all trail, rules, and ownership signs are in place to ensure visitor safety.	Every Other Month	TWTP Open Space Staff
		Conduct regular site inspections and document current conditions in the inspection log.		
		Conduct a follow-up vegetative survey in June.	2016	LCFPD, TWTP Open Space Staff
		Ensure earsonite marking posts, border signs, fencing and any other line markers are in place, in good condition, and replace/repair if needed.	Monthly	TWTP Open Space Staff
		Remove debris from creek to allow water to remain free-flowing. Continue to follow recommendations outlined in the Lake County storm-water management plan.	Seasonally	
Restore	Restore	Stabilize stream banks to prevent undercutting.	2015-2017	
Restore	Restore	Control invasive species commonly found in Lake County, and as described by Northeast Illinois Invasive Plant Partnership when needed using an integrated pest management approach.	Annually	TWTP Open Space Staff, Volunteers
		Re-introduce pre-settlement fire regime. Implement and evaluate burn plan.		

Map Symbol: Management Unit	Management Objective	Management Activity	Ongoing	Key Personnel	TWP Open Space Staff
Entire Parcel (continued)	Restore (continued)	Whenever possible create habitat for wildlife. This includes den trees, snags, brush piles, nurse logs, stumps, coarse woody debris, etc.	Ongoing	Schedule	TWP Open Space Staff
		Continue initial clearing of invasive plants. Cut and herbicide.	2015		TWP Open Space Staff, Volunteers
		Conduct follow-up control of invasives.	Ongoing		
		Seek and apply for restoration grants.	Annually		Supervisor, TWP Open Space Staff, Conserve Lake County
		Include current and long-term management direction into Township site-management plans, restoration documentation, and all other pertinent information.	2017		Supervisor, TWP Open Space Staff
		Photograph parcel when possible during various seasons and during different phases of a given project (usually before and after).	Ongoing		TWTP Open Space Staff
		Provide information and outreach to neighboring homeowners, homeowner associations, and the public of management direction, upcoming projects, volunteer opportunities, and rules of Township Open Space.	Ongoing		Supervisor, TWP Open Space Staff, Conserve Lake County
		Continue communications with the INPC for possible dedication as a Nature Preserve or a Land and Water Reserve.	2015		
		Investigate possible dissolution of easement road.	2017		Village of Mettawa, Supervisor, Adjacent Homeowner, Conserve Lake County
		Recreation	Ongoing		TWTP Open Space Staff
A. Woodland	Restore	Continue to thin woodland to a lower stocking percentage by removing sugar maple, box elder, black cherry, trees with poor form or are in decline, and created group openings; all to allow for more light to penetrate forest floor. Remove invasive plants.	2015		TWP Open Space Staff
		Prescribe burn in dormancy.	Fall 2015		

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
B. Lowland Woods	Restore	Continue to thin woodland to a lower stocking percentage by removing sugar maple, box elder, black cherry, trees with poor form or are in decline, and created group openings; all to allow for more light to penetrate floor. Remove invasive plants.	2015	TWP Open Space Staff
		Prescribe burn in dormancy.	Fall 2015	
C. Floodplain	Restore	Continue to thin woodland to a lower stocking percentage by removing sugar maple, box elder, black cherry, trees with poor form or are in decline, and created group openings; all to allow for more light to penetrate floor. Remove invasive plants.	2015	TWP Open Space Staff
		Prescribe burn in dormancy.	Fall 2015	

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: River Road

Updated: March, 2015

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Easements, Paddocks, Agriculture Field, Woodland, Wetland, Trail	Monitor	Check and document boundaries and encroachments. Update encroachment inventory as needed.	Ongoing	TWP Open Space Staff
		Develop and approve an encroachment policy.	Ongoing	TWP Open Space Staff, Supervisor, Trustee's
		Make sure rules and ownership signs are in place to ensure visitor safety.	Ongoing	TWP Open Space Staff
		Review and monitor easements. Complete easement monitoring log sheet.	Annually	
		Conduct regular site inspections and document current conditions in the inspection log.	Every Other Month	
		As farm license expires (12-31-15), review and evaluate farm license details and options.	Spring 2015	Supervisor, TWP Open Space Staff
	Maintain	Ensure easement marking posts, border signs, fencing and any other line markers are in place, in good condition, and replace/repair if needed.	Monthly	TWP Open Space Staff
		Install split rail fencing at all trail access points to limit unauthorized vehicular access.	2015	
		Provide and maintain trail amenities including but not limited to: the trail, bollards, Knox boxes, benches, trash cans, birdhouses, dog waste centers, culverts, mowed trail edges, etc.	Ongoing	
		Conduct visual trail inspections, especially after storm events. Repair trail washouts and unsafe trail conditions or mark using flagging, cones, barricades, etc. immediately upon discovery.	Weekly	
	Evaluate and sealcoat asphalt trailheads every two years.	2015		
Document	Include current and long-term management direction into Township site management plans, restoration documentation, and all other pertinent information.	2017	Supervisor, TWP Open Space Staff	

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel (continued)	Document (continued)	Photograph parcel when possible during various seasons and during different phases of a given project (usually before and after).	Ongoing	TWP Open Space Staff
	Communication	Provide information and outreach to neighboring homeowners, homeowner associations, and the public of management direction, upcoming projects, volunteer opportunities, and rules of Township Open Space.	Ongoing	Supervisor, TWP Open Space Staff, Conserve Lake County
	Recreation	Provide passive and active recreational opportunities when possible and appropriate such as hiking, biking, bird watching, cross-country skiing, horseback riding, etc.	Ongoing	TWP Open Space Staff
	Site survey	Survey property boundary and install permanent marking posts.	2016	Supervisor, Surveyor, TWP Staff
A. Getz Easements	Monitor easements	Review and monitor easements. Complete easement monitoring log sheet.	Annually	TWP Open Space Staff
		Getz One	2015	
		Getz Two	2015	
B. Agriculture Field	Review farm license	Getz Three	2015	
		As farm license expires (12-31-15), review and evaluate farm license details and options.	Summer 2015	Supervisor, TWP Open Space Staff
	Restore	Explore possibilities of restoration and volunteer opportunities.	Ongoing	
		Whenever possible create habitat for wildlife.	Ongoing	TWP Open Space Staff
C. Woodland	Restore	Explore possibilities of restoration.	Ongoing	Supervisor, TWP Open Space Staff, Volunteers
D. Wetland	Restore	Explore possibilities of restoration.	Ongoing	Supervisor, TWP Open Space Staff, Volunteers

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Rt. 45

Updated: March, 2015

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Abandoned Nursery, Bott Prairie, Bott Easement	Monitor	Check and document boundaries and encroachments. Update encroachment inventory as needed.	Ongoing	TWP Open Space Staff
		Develop and approve an encroachment policy.	Ongoing	TWP Open Space Staff, Supervisor, Trustee's
		Make sure rules, and ownership signs are in place to ensure visitor safety.		TWP Open Space Staff
		Conduct regular site inspections and document current conditions in the inspection log.	Every Other Month	
	Maintain	Ensure earsonite marking posts, border signs, fencing and any other line markers are in place, in good condition, and replace/repair if needed.	Monthly	
	Restore	Seek opportunities for wetland mitigation banking and restoration.	Annually	Supervisor, TWP Open Space Staff
	Document	Include current and long term management direction into Township site management plans, restoration documentation, and all other pertinent information.	2017	
		Photograph parcel when possible during various seasons and during different phases of a given project (usually before and after).	Ongoing	TWP Open Space Staff
	Communication	Provide information and outreach to neighboring homeowners, homeowner associations, and the public of management direction, upcoming projects, volunteer opportunities, and rules of Township Open Space.	Ongoing	Supervisor, TWP Open Space Staff, Conserve Lake County
	Recreation	Provide passive recreational opportunities when possible.	Ongoing	Supervisor, TWP Open Space Staff
Site survey	Survey property boundary and install permanent marking posts	2015	Supervisor, Surveyor	

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
A. Bott Prairie	Restore	Follow-up control of invasives such as buckthorn, thistle, teasel, reed canary-grass, etc.	Annually	TWP Open Space Staff, Supervisor
		Implement burn plan in conjunction with easement holder.	Annually until 2018	TWP Open Space Staff, Supervisor, Easement Holder
		Collect and sow seed on site.	Annually	TWP Open Space Staff
		Whenever possible create habitat for wildlife. This includes den trees, snags, brush piles, nurse logs, stumps, coarse woody debris, etc.	Ongoing	
B. Abandoned Nursery	Explore volunteer opportunities	Schedule a walk through with the Illinois Nature Preserve Commission.	2015	Supervisor, INPC, TWP Staff
		Conduct a vegetative survey in May, June, or July.	2015	LCFPD, TWP Open Space Staff
		Contact Liberty Prairie Homeowners Association.	Annually	Conserve Lake County, TWP Open Space Staff, Supervisor
		Stay in contact with mitigation banker for restoration opportunities. Explore grant opportunities for site restoration.	Ongoing	Supervisor
C. Bott Easement	Communication	Explore alternative land use options and restoration methods including grazing, agroforestry, etc.	Ongoing	Supervisor, TWP Open Space Staff, LP Foundation
		Stay in contact with easement holder and contractor for opportunities with restoration and cohesive management.	Annually	TWP Open Space Staff, Supervisor, Easement Holder
		Review and monitor easement. Complete easement monitoring log sheet.	6/1/2015	TWP Open Space Staff

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Rt. 137

Updated: March, 2015

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Agriculture Fields, Wetland, Wet Prairie Remnant, Woodlands, Abandoned Nursery, Mowed Trail, Proposed Gravel Trail	Monitor	Check and document boundaries and encroachments. Update encroachment inventory as needed. Develop and approve an encroachment policy.	Ongoing	TWP Open Space Staff
		Make sure rules, and ownership signs are in place to ensure visitor safety.	Ongoing	TWP Open Space Staff, Supervisor, Trustee's
		Conduct regular site inspections and document current conditions in the inspection log.	Ongoing	TWP Open Space Staff
		Monitor and document trail construction.	Every Other Month	
	Maintain	Ensure earsonite marking posts, border signs, fencing and any other line markers are in place, in good condition, and replace/repair if needed.	Daily 2015-2016	TWP Open Space Staff
		Mow grass trail, lower stumps, and eliminate trail hazards.	Monthly	TWP Open Space Staff
		Provide and maintain trail amenities including but not limited to: the trail, bollards, Knox boxes, benches, trash cans, birdhouses, dog waste centers, culverts, mowed trail edges, etc.	Seasonally	
		Evaluate and sealcoat asphalt trailheads every two years.	Ongoing	
	Restore	Explore mitigation bank possibilities. Stay in contact with mitigation bank to restore old nursery property.	2017	Supervisor, TWP Open Space Staff
	Document	Explore options for a large scale herbicide project focusing on Phragmites and Reed Canary Grass. Include current and long term management direction into Township site management plans, restoration documentation, and all other pertinent information. Photograph parcel when possible during various seasons and during different phases of a given project (usually before and after).	Annually	Supervisor, TWP Open Space Staff
		2016-2017	Supervisor, TWP Open Space Staff	
		2017	Supervisor, TWP Open Space Staff	
		Ongoing	TWP Open Space Staff	

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel (continued)	Recreation	Provide passive and active recreational opportunities when possible and appropriate such as hiking, biking, bird watching, cross country skiing, horseback riding, etc.	Ongoing	TWTP Open Space Staff
	Site survey	Survey property boundary and install permanent marking posts.	2016	Supervisor, Surveyor, TWTP Staff
	Trail connection	Seek grant opportunities for trail connections to nearby subdivisions.	2015	Supervisor, TWTP Open Space Staff, Conserve Lake County
		Continue engineering services for layout of trail corridor.	2015	Supervisor, Engineer, TWTP Staff
		Sealcoat boardwalk every two years.	2015	TWTP Open Space Staff
A. Agriculture field		Conduct follow up treatments to areas previously cleared of invasives.	Ongoing	
	Review farm license	Review and evaluate license details. Evaluate restoration opportunities as license expires (10-31-16).	Spring 2016	Supervisor, TWTP Open Space Staff
	Restore	Explore mitigation bank possibilities. Stay in contact with mitigation banker to restore agricultural lands, woodlands, and old nursery.	Annually	Supervisor, TWTP Open Space Staff
	Maintain	Keep drainage free flowing and free of obstructions.	Annually	TWTP Open Space Staff
B. Wetland		Investigate the potential for creek bed restoration and stabilization.	2016	Supervisor, TWTP Staff
	Restore	Re-introduce pre-settlement fire regime. Implement and evaluate burn plan.	2016	TWTP Open Space Staff, Contractor
		Control wetland invasives such as phragmites, reed canary grass, purple loosestrife.	2016-2017	
		Inspect property boundaries and encroachments.	Monthly	TWTP Open Space Staff
C. Woodlands		Explore mitigation bank possibilities. Stay in contact with mitigation banker to restore agricultural lands, woodlands, and old nursery.	Annually	Supervisor, TWTP Open Space Staff
	Restore	Seek opportunities for restoration and volunteer opportunities.	Annually	TWTP Open Space Staff
		Continue initial clearing and herbiciding of invasive trees.	2015-2017	
D. Wet Prairie Remnant		Conduct follow up treatments to areas previously cleared of invasives.	Ongoing	
	Restore	Seek opportunities for restoration and volunteer opportunities.	Annually	TWTP Open Space Staff
		Begin initial clearing and herbiciding of invasive trees adjacent to trail corridor.	2015-2017	
		Explore mitigation bank possibilities. Stay in contact with mitigation banker to restore agricultural lands, woodlands, and old nursery.	Annually	Supervisor, TWTP Open Space Staff
E. Abandoned Nursery		Conduct follow up treatments to areas previously cleared of invasives.	Ongoing	

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Township Campus

Updated: March, 2015

Map Symbol: Management Unit (List all communities)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Park, Footpath, Mowed lots, Parking lots, Office buildings, Picnic area, Sidewalks	Monitor	Check and document boundaries and encroachments. Update encroachment inventory as needed.	Ongoing	TWP Open Space Staff
		Develop and approve an encroachment policy.	Ongoing	TWP Open Space Staff, Supervisor, Trustee's
		Make sure all signs are in place to ensure visitor safety and convenience.	Monthly	TWP Open Space Staff
		Monitor footpath surface and repair as needed.	Weekly	
		Monitor construction being done whether it be street widening or other aspects and ensure replacement of any tree removed.		
		Maintain buildings as needed following maintenance guidelines.	Ongoing	Buildings and Grounds Manager
		Provide and maintain amenities including but not limited to: the footpath, sidewalks, benches, picnic tables, trash cans, dog waste centers, lighting, flagpole, brick paver sidewalk, etc.	Ongoing	
		Conduct visual inspections buildings and grounds especially after storm events. Make necessary repairs or mark using flagging, cones, barricades, etc. immediately upon discovery.	Weekly	
		Mow grass, edge beds and sidewalk edges, pull and herbicide weeds, etc. in order to provide an aesthetically pleasing view and safe experience for users and nearby residents.	Weekly	
		Add mulch to planting beds, herbicide turf broadleaf weeds, aerate turf, spring and fall leaf clean up, as necessary.	Seasonally	
		Sealcoat parking lots every two years.	2016	
		Keep sidewalks and parking lots free from snow, ice, and debris to ensure they are safe for users and aesthetically pleasing.	Daily	Buildings and Grounds Manager, Township Open Space Staff
Trim trees in dormancy when possible. Promptly remove dead and dying trees to ensure visitor safety. When replacing trees use native selections. Consider the use of treatments to prevent insect and disease damage.	Seasonally	Buildings and Grounds Manager, Township Open Space Staff, Contractor		

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: (continued)	Document	Include current and long-term management direction into Township site management plans, documentation, and all other pertinent information.	Annually	Buildings and Grounds Manager, Open Space Staff, Supervisor
		Develop and update building maintenance log and guidelines. Log salt and herbicide use for MIS4 report.	Ongoing	Buildings and Grounds Manager
		Photograph parcel when possible during various seasons and during different phases of a given project (before and after).		
		Ensure proper permitting for tree removals.		
	Communication	Provide information and outreach to neighboring homeowners and the public of management direction, upcoming projects, and rules of Township Campus.	Ongoing	Buildings and Grounds Manager, Supervisor
		Ensure there is no overnight parking by installing signs and outreach.		
	Recreation	Provide passive and active recreational opportunities when possible and appropriate such as hiking, biking, bird watching, cross-country skiing, picnicking, etc.	Ongoing	Buildings and Grounds Manager
	Maintain Open Park Appearance	Remove dead and dying trees. Thin trees to a lower stocking percentage allowing light to penetrate the ground for better turf establishment. Increase the size of the area for recreation.	Seasonally- Winter	Open Space Staff, Buildings and Grounds Manager
		Strategically plant more diverse and native species for replacement, while keeping in mind an open park appearance.	Fall 2015	
		Maintain Footpath	Add screenings and roll footpath to provide a safe means of travel. Herbicide footpath edges to prevent weeds from growing into path.	2015
Maintain Visitor Amenities	Paint and seal picnic tables and benches.	2015		
	Maintain Road Frontage Appearance	Maintain sign along Winchester road. Prune trees and shrubs to allow for clear view of signage and beautify nearby landscaping.	2015	
Maintain Building	Maintain buildings as needed following maintenance guidelines.	Ongoing	Buildings and Grounds Manager	
	Remove dead and dying trees. Strategically plant more diverse and native species for replacement. Add mulch to planting beds, pull and herbicide weeds, and water plants when necessary.	Ongoing	Open Space Staff, Buildings and Grounds Manager	

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel	
C. Parking lot and grounds, Sidewalks, Mowed lot	Maintain Landscaping	Remove dead and dying trees. Strategically plant more diverse and native species for replacement. Add mulch to planting beds, pull and herbicide weeds, and water plants when necessary.	Ongoing	Open Space Staff, Buildings and Grounds Manager	
	Maintain Lighting	Ensure parking lot lighting is functional for user safety.	Weekly	Buildings and Grounds Manager	
D. Parks building and grounds, Parking lot, Mowed lot, Park, Sidewalks	Develop Inventory	Document the current state of trees and shrubs present. This will include number, species, diameter, and condition.	2014	Open Space Staff	
	Maintain Landscaping	Remove dead and dying trees. Strategically plant more diverse and native species for replacement. Add mulch to planting beds, pull and herbicide weeds, and water plants when necessary.	Ongoing	Buildings and Grounds Manager, Open Space Staff	
	Maintain Building	Maintain buildings as needed following maintenance guidelines.	Ongoing		
	Maintain Lighting	Ensure parking lot lighting is functional for user safety.	Weekly	Buildings and Grounds Manager	
	Maintain Fencing	Inspect and repair fencing as necessary.	Annually		
	Maintain Drainage Ways	Keep all drainage ways clear of debris and guarantee positive flow.	Monthly		
	Sealcoat Parking Lot	Sealcoat in conjunction with other Township campus parking lots.	2016	Buildings and Grounds Manager, Contractor	

Site Management Plan

Prepared By: D. Cederberg and J. Happ

Site Name: Winchester Road (Soccer Complex)

Updated: March, 2015

Map Symbol: Management Unit (List all communities under unit name)	Management Objective	Management Activity	Schedule	Key Personnel
Entire Parcel: Sports Complex, Athletic Fields, Riparian Corridor	Monitor	Ensure that the license agreement is being followed and board approved. Guarantee access to property (receive gate code).	Monthly	TWP Open Space Staff
		Check and document boundaries and encroachments. Update encroachment inventory as needed.	Ongoing	TWP Open Space Staff
		Develop and approve an encroachment policy.	Ongoing	TWP Open Space Staff, Supervisor, Trustee's
		Conduct regular site inspections and document current conditions in the inspection log.	Every Other Month	TWP Open Space Staff
		Attend annual LTSC meetings.	Annually	Supervisor
		Monitor and discuss future maintenance needs and key personnel regarding Technology Way.	Ongoing	Supervisor, TWP Open Space Staff
	Maintain	Ensure easement marking posts, border signs, fencing and any other line markers are in place, in good condition, and replace/repair if needed.	Monthly	TWP Open Space Staff
	Document	Include current and long term management direction into Township site management plans, restoration documentation, and all other pertinent information.	2017	Supervisor, TWP Open Space Staff
		Photograph parcel when possible during various seasons and during different phases of a given project (usually before and after).	Ongoing	TWP Open Space Staff
	Communication	Provide information and outreach to neighboring homeowners, homeowner associations, and the public of management direction, upcoming projects, volunteer opportunities, and rules of Township Open Space.	Ongoing	Supervisor, TWP Open Space Staff, LTSC
Site Survey	Finish surveying the North and West property boundaries.	2016	Supervisor, Contractor	

Map Symbol: Management Unit	Management Objective	Management Activity	Schedule	Key Personnel
A. Soccer Complex and Athletic Fields	Monitor	Review and evaluate license documentation (expires 2043); Research and communicate with TISC regarding possible artificial turf field installation;	Annually 2016	Supervisor Supervisor, TWP Open Space Staff
B. Riparian Corridor	Monitor	Check creek for obstructions. Keep drainage free flowing and free of obstructions.	Annually	TWP Open Space Staff