

DECLARATION OF COVENANTS AND RESTRICTIONS

This Declaration of Covenants and Restrictions (this "Declaration") is made on this ____ day of _____, 20__ by _____, an Ohio _____ (the "Declarant").

Recitals:

A. Declarant owns certain property located in Franklin / Fairfield (circle one) County, Ohio as more particularly described on the legal description attached hereto as Exhibit A and incorporated herein by reference (the "Property").

B. The Property is subject to Ohio EPA Permit No. OHC000004, dated April 11, 2013 (hereinafter referred to as the "General Permit"), which General Permit requires Declarant to submit a post-construction operation and maintenance plan for storm water facilities and practices, and further requires implementation of the plan be ensured through recording of a legally binding easement, agreement and/or other document.

C. In accordance with the General Permit, Declarant hereby agrees to restrict the use of the Property as set forth in this Declaration, with the intent that such covenants and restrictions run with the land.

NOW, THEREFORE, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Declarant, for itself and its successors and assigns as owners of the Property, hereby agrees as follows:

§1. Covenants and Restrictions. Declarant hereby agrees, for itself and its successors and assigns as owners of the Property, that the Property shall be subject to the following covenants and restrictions:

1. Declarant has submitted, and the City of Canal Winchester has approved, a post-construction operation and maintenance for storm water facilities and practices (hereinafter referred to as the "Maintenance Plan"), a copy of which Maintenance Plan is on file and available at the office of the Service Director of the City of Canal Winchester and incorporated herein by reference. Declarant covenants that the owner of the Property shall be the designated entity for the storm water inspection and maintenance responsibilities set forth in the Maintenance Plan. The owner accordingly shall undertake any routine and/or non-routine inspection and maintenance tasks set forth in the Maintenance Plan in accordance with the schedule set forth in the Maintenance Plan.
2. Declarant hereby acknowledges and agrees that neither the City of Canal Winchester nor the Ohio Environmental Protection Agency is or shall be responsible for the inspection and maintenance tasks set forth in the Maintenance Plan.

§2. Perpetual Restrictions. The covenants and restrictions set forth in this Declaration shall be perpetual and shall run with the land for the benefit of, and shall be enforceable by the City of Canal Winchester. This Declaration and the covenants and restrictions set forth herein shall not be amended, released, extinguished or otherwise modified without the prior written consent of the City of Canal Winchester, which consent may be withheld in its sole and absolute discretion.

§3. Enforcement. If Declarant, or its successors or assigns as owner of the Property, should fail to observe the covenants and restrictions set forth herein, the City of Canal Winchester shall have the right to enforce, by any proceedings at law or in equity, all restrictions, conditions and covenants set forth herein. Failure by the City of Canal Winchester to proceed with such enforcement shall in no event be deemed a waiver of the right to enforce at a later date the original violation or a subsequent violation.

§4. Severability. Each provision of this Declaration and the application thereof to the Property are hereby declared to be independent of and severable from the remainder of this Declaration. If any provision contained herein shall be held to be invalid or to be unenforceable or not to run with the land, such holding shall not affect the validity or enforceability of the remainder of this Declaration.

§5. Notices. Notices or other communication hereunder shall be in writing and shall be sent certified or registered mail, return receipt requested, or by other national overnight courier company, or personal delivery. Notice shall be deemed given upon receipt or refusal to accept such delivery. Each party may change from time to time their respective address for notice hereunder by like notice to the other party. The notice addresses of the parties are as follows:

Declarant: _____

Agency: City of Canal Winchester
36 S. High St.
Canal Winchester, OH 43110
ATTN: Director of Public Service

§7. Governing Law. This Declaration shall be governed by, and construed in accordance with the law of the State of Ohio.

IN WITNESS WHEREOF, the Declarant has caused this Declaration of Covenants and Restrictions to be executed this ___ day of _____, 20__.

DECLARANT:

By: _____

Name: _____

Title: _____

STATE OF OHIO)
) SS
COUNTY OF _____)

The foregoing instrument was acknowledged before me this ___ day of _____, 200_,
by _____, the _____ of _____, a
_____, on behalf of the _____.

Notary Public

This instrument was prepared by:

POST CONSTRUCTION
OPERATION &
MAINTENANCE FOR
STORM WATER FACILITIES
AND PRACTICES



PROJECT NAME
ADDRESS
OWNER
CONTACT PERSON
CONTACT INFORMATION

STORMWATER OPERATION AND MAINTENANCE PLAN

All systems require maintenance regardless of the type of BMP installed. The maintenance requirements vary with each BMP and should be tailored according to system and site specific needs. The property owner of the BMP should be aware of the annual maintenance costs associated with each BMP and should consider these in establishing the long term operations and maintenance plan.

The Operation and Maintenance (O&M) Plan is comprised of the following elements:

1. A Long-term Maintenance Plan written by the design engineer or plan designer. The Maintenance Plan must include a description of the storm water system and its components, inspection priorities, inspection schedule for each component, and a schematic or detail for each BMP.
2. APPENDIX A - An Inspection and Maintenance Agreement signed by the developer or BMP owner.
3. APPENDIX B - A system location map to enable owner or municipality to locate BMPs as needed.
4. APPENDIX C – A copy of the approved SWPPP.
5. APPENDIX D - A copy of the final approved Storm Water Management Design Report.

Long Term Maintenance Plan

Identify and discuss the Best Management Practices (BMPs) that will be used to manage the stormwater runoff from the site. Describe the location of the BMPs and associated treatment tributary areas. Identify the location of the BMPs on the site plan that is to be included on Exhibit B. Indicate any necessary legally binding maintenance easements and agreements that are necessary to adequately maintain the BMPs and provide copies within an Appendix.

Examples of BMP Inspection frequencies, procedures and reports are attached to this document for the preparer's reference.

APPENDIX A

INSPECTION and MAINTENANCE AGREEMENT for STORMWATER FACILITIES

This Inspection and Maintenance Agreement, made this ____ day of _____, by and between _____ (hereafter referred to as OWNER) and the City of Canal Winchester (hereafter referred to as AGENCY), provides as follows:

WHEREAS, the Owner is responsible for certain real estate shown as Parcel No _____ - that is located at _____, and referred to as the Property; and,

WHEREAS, to comply with Section 941.061 of the Codified Ordinances of the City of Canal Winchester, Comprehensive Storm Water Management, pertaining to this project, the Owner has agreed to maintain the storm water management practices in accordance with the terms and conditions hereinafter set forth.

NOW, THEREFORE, for and in consideration of the mutual covenants and undertaking of the parties, the parties hereby agree as follows:

1. The OWNER(S) covenant with the AGENCY that the OWNER(S) shall provide for adequate long term maintenance and continuation of the storm water control measures described in the SWPPP (Storm Water Pollution Prevention Plan) and shown in the location map, deed of easement drawing or plat attached hereto to ensure that the facilities are and remain in proper working condition in accordance with approved design standards, rules and regulations and applicable laws. The OWNER(S) shall perform preventative maintenance activities at intervals described in the inspection schedule included in the Operations and Maintenance Plan along with necessary landscaping (grass cutting, etc.) and trash removal as part of regular maintenance.

2. The OWNER(S) shall provide an Operation and Maintenance Plan for all of the Post-Construction Best Management Practices located on the Property as identified within this agreement with the AGENCY. The Operation and Maintenance Plan shall contain the following:
 - Identify the entity responsible for Best Management Practice inspection and maintenance responsibilities;
 - the maintenance tasks to be undertaken;
 - a schedule for the owner required inspection and maintenance;
 - any necessary legally binding maintenance easements and agreements;
 - a site map showing the location of the Best Management Practices and all access and maintenance easements;
 - a copy of the approved SWPPP; and
 - a copy of the approved storm water design/management report.
3. The OWNER shall inspect all Best Management Practices identified within the Operation and Maintenance Plan every three (3) months during the first year of operation.
4. The OWNER shall inspect all Best Management Practices identified within the Operation and Maintenance Plan at least once every year after the first year of operation.
5. Inspection reports shall be prepared for each Best Management Practice and shall include the following information at a minimum:
 - Project Name
 - Inspection Date
 - Indicate the Best Management Practice inspected and identify the inspected components
 - Summary of inspection results including necessary repairs and maintenance
 - Best Management Practice pictures taken during the time of the inspection
6. The OWNER shall submit to the AGENCY an annual report by February 28th of each year. The report shall include the Operations and Maintenance Plan that documents the inspection schedule, times of inspection, remedial actions taken to repair, modify or reconstruct the system, the state of control measures and notification of any planned change in responsibility for the system.

Inspection reports to be submitted to:

Director of Public Service
City of Canal Winchester
36 S. High St.
Canal Winchester, OH 43110

7. The OWNER(S) shall grant to the AGENCY or its agent or contractor the right of entry at reasonable times and in a reasonable manner for the purpose of inspecting, operating, installing, constructing, reconstructing, maintaining or repairing the facility.
8. The OWNER shall grant to the AGENCY the necessary rights-of-way and maintain perpetual access from public rights-of-way to the facility for the AGENCY or its agent and contractor.

9. If, upon inspection, the AGENCY finds that OWNER(S) has failed to properly maintain the facilities, the AGENCY may order the work performed within 30 days. In the event the work is not performed within the specified time, the OWNER(S) agrees to allow the AGENCY to enter the property and take whatever steps it deems necessary to maintain the storm water control facilities. This provision shall not be construed to allow the AGENCY to erect any structure of a permanent nature on the land of the OWNER(S) without first obtaining written approval of the OWNER(S).
10. The AGENCY is under no obligation to maintain or repair said facilities, and in no event shall this Agreement be construed to impose any such obligation on the AGENCY. The OWNER(S) shall reimburse the AGENCY upon demand the costs incurred in the maintenance of the facilities.
11. If the OWNER fails to pay the AGENCY for the above expenses after 30 days written notice, the OWNER authorizes the AGENCY to collect said expenses from the OWNER through appropriate legal action and the OWNER shall be liable for the reasonable expenses of collection, court costs, and attorney fees.
12. The OWNER(S) hereby agrees that it shall save, hold harmless, and indemnify the AGENCY and its agents, employees and officers from and against all liability, losses, claims, demands, costs and expenses arising from, or out of, default or failure by the Owner to maintain the storm water management practices, in accordance with the terms and conditions set forth herein, or from acts of the Owner arising from, or out of, the construction, operation, repair or maintenance of the storm water management practices.
13. No waiver of any provision of this Agreement shall affect the right of any party thereafter to enforce such a provision or to exercise any right or remedy available.

Attest by OWNER(S)

OWNER(S) Signature

OWNER(S) Signature

OWNER(S) Print Name

OWNER(S) Print Name

Date

Date

Sworn and subscribed before me this ____ day of _____, 20__.

Seal

Notary Public

EXAMPLE 1 - STORMWATER BMP MAINTENANCE GUIDELINES & PROCEDURES

The required maintenance interval for storm water BMPs are often dependent upon the degree of pollutant loading from a particular drainage basin. BMP maintenance can best be broken into three categories: **inspection**, **routine maintenance**, and **major maintenance**. Though each BMP type has its own unique characteristics, **inspections** will generally consist of an assessment to assure its functionality and the general condition. **Routine maintenance** will generally consist of trash and vegetation removal, unclogging of drains, minor sediment removal and exchange of filter media where applicable. **Major maintenance** will be completed as required from inspections and generally consists of significant reconstruction due to failures in the BMP. Examples of Major Maintenance include dredging, excavation, removal of existing media, replacing fabric, replacing the under-drain, and reestablishment of vegetation. The following schedule is offered as a guideline for performing **Inspection** and **routine maintenance** for a range of BMP categories.

BMP	Inspection Frequency	Routine Maintenance Frequency
<i>Inspection Frequency key: A = annual; M=monthly; S=after major storms; Q=Quarterly; SA=Semi Annually</i>		
Bioretention Systems	A, S	2 x /year
Cartridge or Module Media Filtration Structures	SA	1 – 2 x /year
Catch Basin Inserts (long term)	Q	3 – 4 x /year
Dry Pond	M	3 – 4 x /year
Dry Wells	A	1 x /year
Filter Strips or Swales	M	2 – 3 x /year
Green Roofs	SA; S	2 – 3 x /year
Hydrodynamic or Gravity Separators	SA	1 – 2 x /year
Infiltration Trenches	A; S	2 – 3 x /year
Permeable Pavement	A	2 – 3 x /year
Rainwater Gardens	SA; S	2 – 3 x /year
Rainwater Harvesting	SA; S	2 – 3 x /year
Sand Filter	Q first year; SA after	1 – 2 x/ year
Trash & Debris Screens	SA; S	2 – 3 x /year
Underground Storage Facilities	SA	1 x /year
Wetlands	SA	2 x /year
Wet Pond	Q	2 – 3 x /year

Above table developed by SWEMA as a general reference or guideline.

After the storm water treatment and detention system is installed have it inspected per the Post Construction Inspection & Maintenance scheduled detailed in the O&M plan and within 24 hours after storm events greater than 1.0 inches of storm water. Records of inspection and maintenance will be kept in a known, set location and will be available upon request.

Inspection activities should be performed as follows. Any deficiencies that are found shall be repaired immediately.

BMP Element	Potential Deficiencies	Deficiency Remediation
Entire System	Trash/debris is present.	Remove the trash/debris.
SWQ Treatment Unit	Sediment and/or oil are accumulating in the device.	Remove sediment and oil and properly dispose of it off-site.
	Structural damage has occurred in the device.	Repair or replace the device or its components as necessary.
Inlet Device	Pipe is Clogged.	Unclog the pipe. Properly dispose of sediment off-site.
	Pipe is cracked or otherwise damaged.	Replace the pipe.
Basin	Sediment has accumulated to a depth greater than the original design depth for sediment storage.	Remove sediment and properly dispose of it off-site.
	Excessive vegetation has accumulated to a volume greater than the original design volume for sediment storage.	Remove vegetation and properly dispose of it off-site.
	The basin has low areas collecting stagnant water.	Remove excessive sediment and blockages to flow, regrade the basin, as needed.
	Structural damage has occurred to concrete channels or other components.	Repair or replace the vault, piping, and/or other components as necessary.
	Oil is accumulating.	Pump the accumulated oil out of the vault or piping and dispose of it properly.
	Blocked, damaged, or plugged outlet and emergency overflow.	Clear vents from all blockages and make structural repairs as necessary.
Outlet Device and Emergency Overflow	Clogging has occurred.	Clean out the outlet device. Properly dispose of sediment off-site.
	Outlet device is damaged.	Repair or replace the outlet device.
	Erosion or other signs of damage have occurred at the outlet.	Stabilize soil within your property. Contact City of Loveland Public Works Department at 513-683-0150 for further instructions.

EXAMPLE 2 – Inspection Reports

BMP example inspection reports are provided within this appendix. These reports can be adjusted based upon site specific BMPs or additional reports created. Reference the Ohio Department of Natural Resources (ODNR) “Rainwater and Land Development” manual, City Stormwater Design Manual and the city approved site improvement construction plan for BMP inspection and maintenance guidelines.

ODNR Rainwater and Land Development Manual:

www.dnr.state.oh.us/soilandwater/water/rainwater/default/tabid/9186/Default.aspx

Inspection Report
Bioretention Basins, Rain Gardens

Facility Name and Address	
Date of Inspection	
Inspector Name and Phone Number	
No. of BMP's on the Site	

Inspection References:

ODNR Manual, Rainwater and Land Development, Third Edition 2006

City Stormwater Design Manual

Approved Site Improvement Construction Plans

Instructions:

One inspection report shall be prepared for each Best Management Practice. Please sign and date the inspection report and return the original to the City of Canal Winchester Service Director. Please provide pictures of any noted deficiencies and attach to report.

PLANTINGS

- No additional maintenance is recommended at this time.
- Several of the plants provided with the original construction of the facility appear to have died. These plants should be removed and replaced.

Comments:

- The facility appears to have become overgrown. As such, the vegetation in the facility should be thinned out.

Comments:

- Additional items/comments:

BERM (SMALL DAM EMBANKMENT)

- No additional maintenance is recommended at this time.
- The berm was not constructed properly. The berm should be reconstructed to the required height and with the required material.

Comments:

- A portion of the berm has “blown out” (e.g., eroded). The berm should be repaired. Along with the repair, the installation of an armored spillway may require that the berm be constructed to a height approximately 6-inches above the height specified in the approved Construction Drawings.

Comments:

- Additional items/comments:

INFLOW CHANNELS/PIPES/SLOPES

No additional maintenance is recommended at this time.

The inlet areas have eroded. These eroded areas should be repaired.

Comments:

Trash and debris are in the forebay/sediment basin. This material should be removed. If the facility is fed by concentrated inlets and there is not a forebay or sediment basin, one should be considered.

Comments:

Approximately 50% (or more) of the forebay/sediment basin has been filled with sediment. This material should be removed.

Comments:

It appears that the by-pass/diversion structure is malfunctioning. Any trash, sediment, or debris blocking the entry or passage of storm flows through the structure should be removed.

Comments:

Additional items/comments:

PRINCIPAL SPILLWAY PIPE (PSP)

No additional maintenance is recommended at this time.

The PSP is blocked. The blockage should be removed.

Comments:

One or more joints of the PSP are leaking.

Comments:

One or more sections of pipe have settled to a point where the integrity of the dam may be threatened. These sections of pipe may need to be replaced.

Comments:

Additional items/comments:

OUTFALL

Not applicable.

No additional maintenance is recommended at this time.

The outfall area is eroding. The eroded area should be repaired.

Comments:

The outfall area is blocked. This blockage should be removed.

Comments:

Additional items/comments:

OUTLET STRUCTURE

- No additional maintenance is recommended at this time.

- The low-level orifice/inverted siphon is blocked. This blockage should be removed. A debris cage is/is not (highlighted) recommended [disregard comment if a trash-rack is already present].
Comments: _____

- The outlet structure is filled with excess material (debris, trash, rock, etc.). This material should be removed. A top trashrack is/is not recommended [disregard comment if a trashrack is already present].
Comments: _____

- The top trashrack/anti-vortex device is damaged. The trash-rack/anti –vortex device should be repaired or replaced.
Comments: _____

- The outlet structure is damaged/deteriorated. The outlet structure should be repaired or replaced.
Comments: _____

- Additional items/comments:

BIORETENTION AREA & UNDER DRAINS (PLANTINGS EXCLUDED)

- No additional maintenance is recommended at this time.

- The mulch layer has deteriorated or washed away. This mulch layer should be replaced with a 3-inch deep layer of durable hammered hardwood mulch and should be spread uniformly over the entire area or replaced every 3-years and touched up (raked) annually.
Comments: _____

- Areas of erosion were noted in the floor of the bioretention area. These areas should be repaired.
Comments: _____

BIORETENTION AREA & UNDER DRAINS (PLANTINGS EXCLUDED) CONTINUED

- The bioretention area is holding water (e.g., for more than 40-hours after a rain event).

Comments:

- It appears that the soil mix was not installed properly (e.g., either the required soil mix was not used or it was not installed to the correct depth). If it is determined that the soil mix was constructed improperly, the bioretention area will need to be reconstructed to the plan and specifications contained in the approved Construction Drawings.

Comments:

- It appears that the relief pipes (e.g., under drains) proposed in the approved construction drawings were not installed. If it is determined that these drains were not installed, the bioretention area may need to be reconstructed. The relief drains were proposed to mitigate the effects of the poorly draining soils anticipated under the subject facility. If it appears, however, that the facility is functioning adequately and infiltrating the treated drainage into the underlying soil, reconstruction will not be required. If relief drains were not proposed in the Construction Drawings, and the facility appears to have been functioning more like a wetland, official conversion of the facility from a bioretention area to a stormwater wetland may be appropriate. In such instances, consultation with the City of Canal Winchester Public Service Director is recommended.

Comments:

- Additional items/comments:

Inspection Report

Grass Filter Strip

Facility Name and Address	
Date of Inspection	
Inspector Name and Phone Number	
No. of BMP's on the Site	

Inspection References:

ODNR Manual, Rainwater and Land Development, Third Edition 2006

City Stormwater Design Manual

Approved Site Improvement Construction Plans

Instructions:

One inspection report shall be prepared for each Best Management Practice. Please sign and date the inspection report and return the original to the City of Canal Winchester. Please provide pictures of any noted deficiencies and attach to report.

[Project Name]

[Date]

VEGETATION

- No additional maintenance is recommended at this time.
- An adequate uniform vegetative cover is not provided within the filter and the height of the grass is less than 3 to 4 inches.
Comments: _____

- The outfall area is eroded. The eroded area should be repaired.
Comments: _____

- Bare areas were noted within the filter area. These areas should be re-planted with grass.
Comments: _____

- The outfall area is blocked. This blockage should be removed.
Comments: _____

- Sediment, trash, or debris are noticeable within the filter area, the material shall be removed and re-planted as necessary to ensure adequate vegetated cover.
Comments: _____

- Additional items/comments:

LEVEL SPREADER – WEIR/FOREBAY

- No additional maintenance is recommended at this time.
- The weir is blocked with accumulated sediment or debris.
Comments: _____

- Areas of concentrated flow from the weir into the filter are noticeable and erosion is present. The weir needs adjusted and the eroded areas repaired.
Comments: _____

- The forebay has filled with sediment/debris (approximately 25-30% by volume) and the material needs removed and properly disposed.
Comments: _____

Inspection Report

Grassed Swale

Facility Name and Address	
Date of Inspection	
Inspector Name and Phone Number	
No. of BMP's on the Site	

Inspection References:

ODNR Manual, Rainwater and Land Development, Third Edition 2006

City Stormwater Design Manual

Approved Site Improvement Construction Plans

Instructions:

One inspection report shall be prepared for each Best Management Practice. Please sign and date the inspection report and return the original to the City of Canal Winchester. Please provide pictures of any noted deficiencies and attach to report.

VEGETATION

- No additional maintenance is recommended at this time.

- An adequate uniform vegetative cover is not provided within the swale and the height of the grass is less than 3 to 4 inches.
Comments: _____

- The outfall area is eroded. The eroded are should be repaired.
Comments: _____

- Bare areas were noted within the swale area. These areas should be re-planted with grass.
Comments: _____

- The outfall area is blocked. This blockage should be removed.
Comments: _____

- Sediment, trash, or debris are noticeable within the swale area, the material shall be removed and re-planted as necessary to ensure adequate vegetated cover.
Comments: _____

- Additional items/comments:

Inspection Report
Underground Proprietary Devices

Facility Name and Address	
Date of Inspection	
Inspector Name and Phone Number	
No. of BMP's on the Site	

Inspection References:

ODNR Manual, Rainwater and Land Development, Third Edition 2006

City Stormwater Design Manual

Approved Site Improvement Construction Plans

Instructions:

One inspection report shall be prepared for each Best Management Practice. Please sign and date the inspection report and return the original to the City of Canal Winchester. Please provide pictures of any noted deficiencies and attach to report.

[Project Name]

[Date]

OUTFALL

- No additional maintenance is recommended at this time.
- The outfall area is eroded. The eroded area should be repaired.
Comments: _____

- The outfall area is blocked. This blockage should be removed.
Comments: _____

- Sediment, trash, or floatables are noticeable downstream of the BMP, the material shall be removed and the BMP further evaluated for deficiencies.
Comments: _____

- Additional items/comments:

HYDRODYNAMIC DEVICES/PROPRIETARY DEVICES/PRETREATMENT CELLS

- Not applicable.
- No additional maintenance is recommended at this time.
- Sediment levels exceed manufacturer's recommendations, removal of sediment is required.
Comments: _____

- Depth of floatables such as oils, greases, and trash and determine if the depth exceeds manufacturer's recommendations, removal of floatables is required.
Comments: _____

- The filters are clogged and shall be removed and replaced.
Comments: _____

- Additional items/comments:

UNDERGROUND STORAGE

- Not applicable.
- No additional maintenance is recommended at this time.
- The sediment volume in the storage pipes/vessels exceeds 10% of the storage volume, removal of accumulated sediment required.
Comments: _____

- The underground storage cell is supposed to infiltrate runoff, but standing water is observed, the storage cell may need to be cleaned.
Comments: _____

- The underground storage cell is holding water, the blockage shall be removed.
Comments: _____

- Additional items/comments:

INFLOW CHANNELS/PIPES/SLOPES

- No additional maintenance is recommended at this time.
- Trash and debris noticeable at inlet to BMP, the material shall be removed.
Comments: _____

- Additional items/comments:

Inspection Report
Wet Basin, Dry Basin, or Wetland

Facility Name and Address	
Date of Inspection	
Inspector Name and Phone Number	
No. of BMP's on the Site	

Inspection References:

ODNR Manual, Rainwater and Land Development, Third Edition 2006

City Stormwater Design Manual

Approved Site Improvement Construction Plans

Instructions:

One inspection report shall be prepared for each Best Management Practice. Please sign and date the inspection report and return the original to the City of Canal Winchester. Please provide pictures of any noted deficiencies and attach to report.

[Project Name]

[Date]

WETLAND AND RIPARIAN PLANTINGS

- No additional maintenance is recommended at this time.
- It appears that some of the plantings installed during construction may have died, did not colonize as intended, and/or have been overtaken by invasive plant species. This condition needs to be corrected to achieve a minimum 90% coverage in the planting zone a minimum of 2 years after initial construction.

Comments:

BASIN/DAM EMBANKMENT

- No additional maintenance is recommended at this time.
- At the time of the inspection, the dam was over grown. The dam should be mowed so that a more thorough inspection can be provided.

Comments:

BASIN/DAM EMBANKMENT CONTINUED

- Bare areas were noted on the dam. These areas should be planted with grass.
Comments: _____

- Trees were noted on the dam. These trees should be removed and replaced with grass.
Comments: _____

- Shrubby and other types of landscaping were noted on the dam. This material should be removed and replaced with grass.
Comments: _____

- The compaction of the dam, in the area around the outlet structure and the connection of the principal spillway pipe to the riser, seemed inadequate (e.g., the dam provided little resistance to soil probing). This condition should be monitored as it may lead to piping or excessive settlement.
Comments: _____

- Piping (loss of soil) around the outlet structure/principal spillway pipe was noted. These areas should be repaired.
Comments: _____

- Erosion/sloughing is noted on the dam. These areas should be repaired.
Comments: _____

- Areas of slope slippage, bulging, and/or excessive settlement were noted on the dam. These areas should be repaired.
Comments: _____

- Fractures were noted in the dam. These areas should be repaired.
Comments: _____

- Animal burrows were noted in the dam. These burrow holes should be filled in.
Comments: _____

OUTLET STRUCTURE

- No additional maintenance is recommended at this time.

- The normal pool orifice/inverted siphon is blocked. This blockage should be removed.
Comments: _____

- The outlet structure is filled with excess material (debris, trash, rock, etc.). This material should be removed. A top trashrack is/is not recommended [disregard comment if a trashrack is already present].
Comments: _____

- The top trashrack/anti-vortex device is damaged. The trash-rack/anti -vortex device should be repaired or replaced.
Comments: _____

- The outlet structure is damaged/deteriorated. The outlet structure should be repaired or replaced.
Comments: _____

- Additional items/comments:

EMERGENCY SPILLWAY

- No additional maintenance is recommended at this time.
- At the time of the inspection, the emergency spillway was overgrown. The spillway should be mowed so that a more thorough inspection can be provided.
- It appears that the emergency spillway was not installed in accordance with the approved construction drawings. The spillway should be installed.

Comments: _____

- Bare areas were noted on the emergency spillway. These areas should be planted with grass.

Comments: _____

- Trees were noted on the emergency Spillway. These trees should be removed and replaced with grass.

Comments: _____

- Shrubby and other types of landscaping were noted on the emergency spillway. This material should be removed and replaced with grass.

Comments: _____

- Erosion was noted on the emergency spillway. These areas should be repaired.

Comments: _____

- Additional items/comments:

PRINCIPAL SPILLWAY PIPE (PSP)

- No additional maintenance is recommended at this time.
- The PSP is blocked. The blockage should be removed.
Comments: _____

- One or more joints of the PSP are leaking.
Comments: _____

- One or more sections of pipe have settled to a point where the integrity of the dam may be threatened. These sections of pipe may need to be replaced.
Comments: _____

- Additional items/comments:

OUTFALL

- No additional maintenance is recommended at this time.
- The outfall structure is undermined and/or is rusting/deteriorating. This structure should be repaired or replaced.
Comments: _____

- The outfall structure has separated from the PSP by more than three inches. This structure should be reattached to the PSP.
Comments: _____

- The outfall area is eroding. The outfall area should be repaired and stabilized with additional riprap (e.g., irregularly shaped stone) or a permanent soil liner (i.e., turf reinforcing mat, articulated concrete block, etc.).
Comments: _____

- The outfall area is blocked. This blockage should be removed.
Comments: _____

- Additional items/comments:

IMPOUNDMENT AREA

- No additional maintenance is recommended at this time.
- The water level is more than 6" below the normal pool elevation.
Comments: _____

- The forebay/sediment basin/impoundment areas have silted in. These areas should be cleaned out.
Comments: _____

- The forebay berm has eroded. The berm should be repaired.
Comments: _____

- Bare areas were noted on the pond side slopes. These areas should be stabilized.
Comments: _____

- Eroded areas (rills, channels, etc.) were noted on the pond side slopes. These areas should be repaired and stabilized.
Comments: _____

- Algae has covered over 50% of the deep pool and shallow water areas, the algae growth shall be removed and controlled.
Comments: _____

- Additional items/comments:

