# Stormwater Pollution Prevention Plan

## For:

Highland Meadows 5th and 6th Plat
1100 SW Heather Drive
Lee's Summit, MO 64081

## Operator:

Brad Kempf
Summit Homes
120 SE 30th Street
Lee's Summit, MO 64082

## SWPPP Contact(s):

Zach Myers
Anderson Engineering Inc.
941 W. 141st Terrace, Suite A
Kansas City, MO 64145
(816) 777-0400

## SWPPP Preparation Date:

**Date 1/15/2021**

**Revised 2/26/2021**

*Estimated Project Dates:*

**Project Start Date: March 2021**

**Project Completion Date: March 2022**

# Contents

# SECTION 1: SITE EVALUATION, ASSESSMENT, AND PLANNING

## *1.1 Project/Site Information*

Project/Site Name Highland Meadows 5th an 6th Plat

Project Street/Location: 1100 SW Heather Drive

City: Lee's Summit State: MO ZIP Code: 64081

County or Similar Subdivision: Jackson County

Latitude/Longitude (Use **one** of three possible formats, and specify method)

| Latitude: | Longitude: |
|---|---|
| 1. 38° 54' 00'' N (degrees, minutes, seconds) | 1. 94° 26' 05'' W (degrees, minutes, seconds) |
| 2. _ _ º _ _. _ _' N (degrees, minutes, decimal) | 2. _ _ º _ _. _ _' W (degrees, minutes, decimal) |
| 3. _ _. _ _ _ _ º N (decimal) | 3. _ _. _ _ _ _ º W (decimal) |

Method for determining latitude/longitude:

☐ USGS topographic map (specify scale: _____) ☐ EPA Web site ☐ GPS

☒ Other (please specify): Google Earth

Is the project located in Indian country? No

If yes, name of Reservation, or if not part of a Reservation, indicate "not applicable." Not Applicable

Is this project considered a federal facility? No

NPDES project or permit tracking number*: None at Present

**(This is the unique identifying number assigned to your project by your permitting authority after you have applied for coverage under the appropriate National Pollutant Discharge Elimination System (NPDES) construction general permit.)*

## *1.2 Contact Information/Responsable Parties*

**Operator(s):**

**Company or Organization Name**: Summit Homes
**Name**: Brad Kempf
**Address**: 120 SE 30th Street
**City, State, Zip Code**: Lee's Summit, MO 64082
**Telephone Number**: 816-927-9711

**Project Manager(s) or Site Supervisor(s):**

**Company or Organization Name**: Anderson Engineering Inc.
**Name**: Zach Myers
**Address**: 941 W. 141st Terrace
**City, State, Zip Code**: Kansas City, MO 64145
**Telephone Number**: (816) 777 - 0400
**Fax/Email**: zmyers@andersonengineeringinc.com

**SWPPP Contact(s):**

**Company or Organization Name**: Anderson Engineering Inc.
**Name**: Zach Myers
**Address**: 941 W. 141st Terrace, Suite A
**City, State, Zip Code**: Kansas City, MO 64145
**Telephone Number**: (816) 777 - 0400
**Fax/Email**: zmyers@andersonengineeringinc.com

**This SWPPP was Prepared by:**

**Company or Organization Name**: Anderson Engineering Inc.
**Name**: Garrett Cates
**Address**: 941 W. 141st Terrace, Suite A
**City, State, Zip Code**: Kansas City, MO 64145
**Telephone Number**: (816) 777 - 0400
**Fax/Email**: gcates@andersonengineeringinc.com

**Emergency 24-Hour Contact:**

**Company or Organization Name**: Summit Homes
**Name**: Brad Kempf
**Telephone Number**: 816-927-9711

## *1.3 Nature and Sequence of Construction Activity*

**Describe the general scope of the work for the project, major phases of construction, etc.**:
Construction shall include mass grading and the installation of storm sewer, sanitary sewer, water line, street and detention basin improvements for two phases of a 77-lot residential development.

**What is the function of the construction activity?**

☒ Residential ☐ Commercial ☐ Industrial ☐ Road Construction ☐ Linear Utility
☐ Other (please specify):

**Estimated Project Start Date**: March 2021
**Estimated Project Completion Date**: March 2022

## 1.4 Soils, Slopes, Vegetation, and Current Drainage Patterns

**Soil type(s):**
17.2 acres (59.1%) Greenton silty clay loam, 5 to 9% slopes.
11.9 acres (40.9%) Sharpsburg silt loam, 2 to 5% slopes.

**Slopes (describe current slopes and note any changes due to grading or fill activities):**
Existing site slopes range from 2 to 9%.

**Drainage Patterns (describe current drainage patterns and note any changes dues to grading or fill activities):**
Currently, runoff flows to the southeast into an existing unnamed tributary of the Little Blue River along the south and east sides of the property.

**Vegetation:** The Site is mostly undeveloped and consists of mostly pasture with some forested area.

**Other:**

## 1.5 Construction Site Estimates

**The following are estimates of the construction site.**

| | |
|---|---|
| **Total project area:** | 29.1 Acres |
| **Construction site area to be disturbed:** | 29.1 Acres |
| **Percentage impervious area before construction**: | 0% |
| **Composite SCS curve number before construction:** | C = 69 (based on weighted average) |
| **Percentage impervious area after construction:** | 31% |
| **Composite SCS curve number after construction:** | C = 82 (based on weighted average) |

## 1.6 Receiving Waters

**Description of receiving waters:**
Storm water drains southeast into an unnamed tributary of the Little Blue River.

**Description of storm sewer systems:**
In the proposed site, a series of storm drains will carry the stormwater into a detention pond located on the southeast corner of the property

**Description of impaired waters or waters subject to TMDLs:**
No waters subject to TMDLs on site.

## 1.7 Site Features and Sensitive Areas to be Protected

**Description of unique features that are to be preserved:** None.

**Describe measures to protect these features**: Not applicable.

## *1.8 Potential Sources of Pollution*

**Potential sources of sediment to stormwater runoff:**
On site construction grading and other construction activities.

**Potential pollutants and sources, other than sediment, to stormwater runoff:**

| Material/Chemical | Physical Description | Stormwater Pollutants | Location* |
|---|---|---|---|
| Pesticides (insecticides, fungicides, herbicides, rodenticides) | Various colored to colorless liquid, powder, pellets, or grains | Chlorinated hydrocarbons, organophosphates, carbamates, arsenic | Herbicides used for noxious weed control |
| Fertilizer | Liquid or solid grains | Nitrogen, phosphorous | Newly seeded areas |
| Plaster | White granules or powder | Calcium sulphate, calcium carbonate, sulfuric acid | Building construction |
| Cleaning solvents | Colorless, blue, or yellow-green liquid | Perchloroethylene, methylene chloride, trichloroethylene, petroleum distillates | No equipment cleaning allowed in project limits |
| Asphalt | Black solid | Oil, petroleum distillates | Streets and roofing |
| Concrete | White solid/grey liquid | Limestone, sand, pH, chromium | Curb and gutter, building construction |
| Glue, adhesives | White or yellow liquid | Polymers, epoxies | Building construction |
| Paints | Various colored liquid | Metal oxides, Stoddard solvent, talc, calcium carbonate, arsenic | Building construction |
| Curing compounds | Creamy white liquid | Naphtha | Curb and gutter |
| Wood preservatives | Clear amber or dark brown liquid | Stoddard solvent, petroleum distillates, arsenic, copper, chromium | Timber pads and building construction |
| Hydraulic oil/fluids | Brown oily petroleum hydrocarbon | Mineral oil | Leaks or broken hoses from equipment |
| Gasoline | Colorless, pale brown or pink petroleum hydrocarbon | Benzene, ethyl benzene, toluene, xylene, MTBE | Secondary containment/staging area |
| Diesel Fuel | Clear, blue-green to yellow liquid | Petroleum distillate, oil & grease, naphthalene, xylenes | Secondary containment/staging area |

## 1.9 Endangered Species Certification

**Are endangered or threatened species and critical habitats on or near the project area?**

Yes. The Northern Long-Eared Bat, Indiana Bat, and the Gray Bat have habitat on or near the project area. The Northern Long-Eared Bat is a threatened species. The Indiana Bat, and the Gray Bat are endangered species. However, this project area is not a critical habitat.

**Describe how this determination was made:**

Through the Information for Planning and Conservation (IPaC) online search tool from the U.S. Fish & Wildlife Service.

**If yes, describe the species and/or critical habitat:**

See appendix L.

## 1.10 Historic Preservation

**Are there any historic sites on or near the construction site?**

None present.

**Describe how this determination was made:**

State Historic Preservation.

**If yes, describe or refer to documentation that determines the likelihood of an impact on this historic site and the steps taken to address that impact.**

## 1.11 Applicable Federal, Tribal, State or Local Programs

None.

## 1.12 404/401 Permitting

There shall be no grading conducted within 50 feet of any protected waters, therefore a 404/401 permit shall not be required for this project.

# SECTION 2: EROSION AND SEDIMENT CONTROL BMPS

## *2.1 Minimize Disturbed Area and Protect Natural Features and Soil*

All construction activities shall be structured so as to minimize impact to existing site conditions. Erosion control, sediment control, and BMPs shall be inspected and maintained by the contractor on a weekly basis and within 24 hours of a rainfall event of .5 inch or more.

## *2.2 Phase Construction Activity*

**Pre-Clearing**

1. Construct construction vehicle entrance and install perimeter silt fence and inlet protection to existing inlets surrounding the limits of disturbance.
2. Clear trees and vegetation where Phase 1 grading operations will be completed. Only remove those trees necessary to accomplish grading activities as shown on erosion control plans. Install rock ditch checks as access to drainage ditches becomes available.
3. Install silt fence and/or diversion berm(s) at toe of slope along perimeter of Phase 1 area. Phase 2 activities cannot begin until Phase 1 is completed.
4. Contractor to construct stormwater management facilities, specifically those features related to detention, prior to any land disturbance of the site and prior to the construct9ion of any other site development work as not to affect downstream neighbors with undetained stormwater discharge.
5. Clear remaining trees and vegetation where Phase 2 grading operations will be completed. Only remove those trees necessary to accomplish grading activities shown on plan.
6. As tree clearing and grading operations are completed, areas to remain inactive for more than 14 days shall be stabilized with seed and compost mulch and/or steep slope protection. See intermediate erosion control plan.

**Intermediate Stabilization**

1. Finish any mass grading and/or steep slope stabilization activities that were not completed in Phase 1.
2. Begin installing underground infrastructure starting with sanitary sewer, followed by storm sewer, then water line. Install inlet protection and slope interrupt silt fence once pipe backfilling has been completed.
3. As pipe installation operations are completed, areas to remain inactive for more than 14 days shall be stabilized with seed and compost mulch and/or steep slope protection. See Final Stabilization Plan.
4. As storm sewer infrastructure is completed, inlet protection shall be installed on all inlets, as well as, outlet protection and riprap to protect outlet areas from highly concentrated discharge flows.

5. All Phase 1 and Phase 2 erosion control measures shall continue being regularly inspected and maintained until final stabilization of at least 70% of the disturbed surface has been met through temporary seeding.

**Final Stabilization**

1. Remove construction entrance/exit as roads area paved.
2. Install curb, road pavement, and required sidewalks adjacent to tracts, and ADA accessible sidewalk ramps. Adjust silt fence and slope interrupts as necessary to prevent mud and silt from flowing long distances.
3. Seed and/or sod all disturbed areas once finish grade has been achieved. Maintain silt fence, slope interrupts, steep slope protection, and inlet protection until vegetative cover has been established over 70% of the total disturbed area.
4. As all disturbed areas are stabilized with vegetative cover, storm sewer inlet protection, silt fence, slope interrupts, rock ditch checks, and diversion berms can be removed upon city inspection and approval. Ensure entire site is stabilized for Phase 6 construction activities to the north of Phase 5 to begin.
5. The sediment basin can be converted to a detention basin once disturbed areas reach adequate stabilization and displaced sediments are no longer being collected in the sediment basin after a rain event.

## 2.3 Control Stormwater Flowing onto and through the Project

| | |
|---|---|
| ***BMP Description***: *Silt Fence* | |
| ***Installation Schedule***: | Install as perimeter BMP's and as required by grading operations. |
| ***Maintenance and Inspection***: | Inspect weekly or within 24hrs after a rainfall event of .5 inch or more, whichever is sooner, or until all permanent measures have been established. Maintain or replace as necessary. |
| ***Responsible Staff***: | Contractor |
| ***BMP Description***: | |
| ***Installation Schedule***: | |
| ***Maintenance and Inspection***: | |
| ***Responsible Staff***: | |
| ***BMP Description***: | |
| ***Installation Schedule***: | |
| ***Maintenance and Inspection***: | |
| ***Responsible Staff***: | |

## 2.4 Stabilize Soils

| | |
|---|---|
| ***BMP Description:*** *Temporary Seeding* | |
| ☐ ***Permanent*** | ☒ ***Temporary*** |
| ***Installation Schedule:*** | Throughout project in areas of disturbed soil that remain inactive for 14 days or more. |
| ***Maintenance and Inspection:*** | All temporary seeding shall include mulch or similarly effective soil stabilizing BMP to comply with Part 7.2.5 of the general permit. Inspect weekly or within 24hrs after a rainfall event of .5 inch or more, whichever is sooner, or until all permanent measures have been established. Maintain or replace as necessary. |
| ***Responsible Staff:*** | Contractor |
| ***BMP Description:*** | |
| ☐ ***Permanent*** | ☐ ***Temporary*** |
| ***Installation Schedule:*** | |
| ***Maintenance and Inspection:*** | |
| ***Responsible Staff:*** | |

***BMP Description:***

| ☐ ***Permanent*** | ☐ ***Temporary*** |
|---|---|
| ***Installation Schedule:*** | |
| ***Maintenance and Inspection:*** | |
| ***Responsible Staff:*** | |
| ***BMP Description:*** | |
| ☐ ***Permanent*** | ☐ ***Temporary*** |
| ***Installation Schedule:*** | |
| ***Maintenance and Inspection:*** | |
| ***Responsible Staff:*** | |

## *2.5 Protect Slopes*

| ***BMP Description****: Silt Fence* | |
|---|---|
| ***Installation Schedule:*** | Intermediately to stabilize slopes during grading activities until permanent seeding vegetation or controls have been established. |
| ***Maintenance and Inspection:*** | Inspect weekly or within 24hrs after a rainfall event of .5 inch or more, whichever is sooner. Maintain or replace as necessary. |
| ***Responsible Staff:*** | Contractor |
| ***BMP Description****: Rock Ditch Checks* | |
| ***Installation Schedule:*** | Install anywhere concentrated flows are flowing across un-stabilized areas. |
| ***Maintenance and Inspection:*** | Inspect weekly or within 24hrs after a rainfall event of .5 inch or more, whichever is sooner. Maintain or replace as necessary. |
| ***Responsible Staff:*** | Contractor |

| ***BMP Description:*** *Erosion Control Blankets/Turf Maps* | |
|---|---|
| ***Installation Schedule:*** | After grading operations have been completed and seed has been placed. |
| ***Maintenance and Inspection:*** | Inspect weekly or within 24hrs after a rainfall event of .5 inch or more, whichever is sooner. Maintain or replace as necessary. |
| ***Responsible Staff:*** | Contractor |
| ***BMP Description****:* | |
| ***Installation Schedule:*** | |
| ***Maintenance and Inspection:*** | |
| ***Responsible Staff:*** | |

## 2.6 Protect Storm Drain Inlets

| ***BMP Description**: Rock bags* | |
|---|---|
| ***Installation Schedule:*** | Install at sites where inlets are within construction limits and will be affected by work. |
| ***Maintenance and Inspection:*** | Inspect weekly and within 24hrs after a rainfall event of .5 inch or more, whichever is sooner. Maintain or replace as necessary. |
| ***Responsible Staff:*** | Contractor. |

## 2.7 Establish Perimeter Controls and Sediment Barriers

| ***BMP Description:** Perimeter Silt Fence* | |
|---|---|
| ***Installation Schedule:*** | Prior to beginning grading/clearing or demolition activities. |
| ***Maintenance and Inspection:*** | Inspect weekly and within 24hrs after a rainfall event of .5 inch or more, whichever is sooner. Maintain or replace as necessary. |
| ***Responsible Staff:*** | Contractor. |

| ***BMP Description:** Diversion Berms* | |
|---|---|
| ***Installation Schedule:*** | Prior to beginning grading/clearing or demolition activities. |
| ***Maintenance and Inspection:*** | Inspect weekly and within 24hrs after a rainfall event of .5 inch or more, whichever is sooner. Maintain or replace as necessary. |
| ***Responsible Staff:*** | Contractor. |

## 2.8 Retain Sediment On-Site

| ***BMP Description**: Sediment Basin* | |
|---|---|
| ***Installation Schedule:*** | Prior to beginning mass grading activities. |
| ***Maintenance and Inspection:*** | Inspect weekly and within 24hrs after a rainfall event of .5 inch or more, whichever is sooner. Remove sediment deposits as required (20% of design volume per plans). |
| ***Responsible Staff:*** | Contractor. |

## 2.9 Establish Stabilized Construction Exits

| | |
|---|---|
| ***BMP Description:*** *Stabilized Temporary Construction Entrance* | |
| ***Installation Schedule:*** | At start of construction activities to allow access to staging area and as required by removal of the existing pavements. |
| ***Maintenance and Inspection:*** | Temporary construction entrance shall be maintained by contractor throughout project as long as the temporary construction entrance is required. |
| ***Responsible Staff:*** | Contractor |
| ***BMP Description:*** *Off Site Road Sweeping & Cleaning* | |
| ***Installation Schedule:*** | Intermittently as necessary. |
| ***Maintenance and Inspection:*** | Tracking of soil off site shall be monitored continuously and cleaned immediately once found. |
| ***Responsible Staff:*** | Contractor |

# SECTION 3: GOOD HOUSEKEEPING BMPS

## *3.1 Material Handling and Waste Management*

| ***BMP Description:*** *Trash Receptacles* | |
|---|---|
| ***Installation Schedule:*** | At start of construction activities. |
| ***Maintenance and Inspection:*** | Regular disposal of refuse off site to a trash disposal facility. |
| ***Responsible Staff:*** | Contractor. |
| ***BMP Description:*** *Portable Toilets* | |
| ***Installation Schedule:*** | At start of construction activities. |
| ***Maintenance and Inspection:*** | Regular disposal of waste off site to a waste water facility. |
| ***Responsible Staff:*** | Contractor. |

| ***BMP Description:*** *Soil Stockpile Area* | |
|---|---|
| ***Installation Schedule:*** | Once perimeter is stabilized. |
| ***Maintenance and Inspection:*** | Soil stockpile area shall be monitored continuously throughout the project. Soil stockpile area shall be bordered at minimum by perimeter silt fence. The contractor shall be responsible to prevent soil from being transmitted away from the stockpile area by stormwater. Inspect weekly and within 24hrs after a rainfall event of .5 inch or more, whichever is sooner. Maintain as necessary. |
| ***Responsible Staff:*** | Contractor. |

## 3.2 Establish Proper Building Material Staging Areas

| ***BMP Description:*** *Material Storage in Original Containers or Sheltered from Elements.* | |
|---|---|
| ***Installation Schedule:*** | At start of construction activities. |
| ***Maintenance and Inspection:*** | Material storage shall be monitored continuously throughout the project. Construction materials expected to be on-site include concrete, paints, asphalts, fertilizers, petroleum-based products, and cleaning solvents. |
| ***Responsible Staff:*** | Contractor. |

## 3.3 Designate Washout Areas

Washout areas on site will be constructed so as to prevent wash water from running off to contaminate surface water or infiltrating to contaminate ground water. Washout areas shall be located as noted on the plan and maintained by the contractor.

## 3.4 Establish Proper Equipment/Vehicle Fueling and Maintenance Practices

All construction equipment shall be kept in good working order to prevent equipment leaks or spills. If equipment maintenance is to be performed on site, measures shall be taken to contain any loss of equipment fluids that may occur during maintenance. All maintenance fluids kept on site shall be kept at a minimum as described in the spill prevention and control plan section of this SWPPP.

## 3.5 Control Equipment/Vehicle Washing

Vehicle washing facilities on site shall be designated by the contractor. All construction equipment wash water shall be contained so as to eliminate wash water runoff that may contaminate surface water or infiltrate to contaminate ground water.

## *3.6 Spill Prevention and Control Plan*

Spill Prevention

- An effort will be made to store only enough material on site as is required to perform the work.
- All materials stored on site with be arranged in a neat, orderly manner within their appropriately labeled containers, and if possible, sheltered under a roof or within an enclosure.
- Substances stored shall not be mixed with one another unless recommended by the manufacturer.
- Whenever possible, a product will be used up before disposing of the container.
- Manufacturer's recommendations for proper use and disposal will be followed.
- The site manager or delegated personnel will inspect, daily, to ensure the proper use and disposal of onsite materials.
- Hazardous waste will be disposed of properly (as per local and state recommended methods)

Spill Containment, Cleanup & Personnel Training

- Manufacturers' recommended methods for spill cleanup will be clearly posted and site personnel will be made aware of the procedures and the location of the information and cleanup supplies.
- Materials and equipment necessary for spill cleanup will be kept in the material storage areas on site. Equipment and materials will include, but not be limited to, brooms, dust pans, maps, rags, gloves, goggles, kitty litter, sand, sawdust, and plastic and metal trash containers specifically for this purpose.
- All spills will be cleaned up immediately after discovery.
- The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- Spills of toxic or hazardous material will be reported to the appropriate state or local agency, regardless of the size.
- Should a spill occur, the spill prevention plan will be adjusted by the site manager to include measures to prevent this type of spill from reoccurring and how to clean up the spill if there is another one. A description of the spill, what caused it, and the cleanup measures will also be included.
- The site manager will be the spill prevention and cleanup coordinator.

## 3.7 Any Additional BMPs

| ***BMP Description:*** *Contractor Staging Area* | |
|---|---|
| ***Installation Schedule:*** | At start of construction activities. |
| ***Maintenance and Inspection:*** | Yard shall be constructed with an appropriate barrier to serve as storage location for materials and equipment. Yard surface and appropriate barrier shall be maintained as necessary throughout project. |
| ***Responsible Staff:*** | Contractor. |

## 3.8 Allowable Non-Stormwater Discharge Management

- Potable water from uncontaminated water line flushing.
- Pavement Wash waters (where no spills or leaks of toxic or hazardous materials has occurred).
- Uncontaminated water used for dust control.
- Uncontaminated water used for soil compaction.

# SECTION 4: SELECTING POST-CONSTRUCTION BMPs

| | |
|---|---|
| ***BMP Description:*** *Permanent Seeding or Sodding, and Final Landscaping* | |
| ***Installation Schedule:*** | Once final grading has been completed |
| ***Maintenance and Inspection:*** | Inspection weekly or within 24hrs after a rainfall event of .5 inch or more, whichever is sooner, or until all permanent measures have been established. |
| ***Responsible Staff:*** | Contractor |
| ***BMP Description:*** *Final Paving* | |
| ***Installation Schedule:*** | Once final grading has been completed |
| ***Maintenance and Inspection:*** | Inspection weekly or within 24hrs after a rainfall event of .5 inch or more, whichever is sooner, or when paving operations are complete. |
| ***Responsible Staff:*** | Contractor |
| ***BMP Description:*** | |
| ***Installation Schedule:*** | |
| ***Maintenance and Inspection:*** | |
| ***Responsible Staff:*** | |
| ***BMP Description:*** | |
| ***Installation Schedule:*** | |
| ***Maintenance and Inspection:*** | |
| ***Responsible Staff:*** | |

# SECTION 5: INSPECTIONS

## 5.1 Inspections

1. ***Inspection Personnel:*** Identify the person(s) who will be responsible for conducting inspections and describe their qualifications: ***Vincent Walker (Contractor) shall be responsible for all construction BMPs including but not limited to: Installation, inspection, operation, and maintenance throughout the duration of the project until the General Permit has been terminated.***

2. ***Inspection Schedule and Procedures:***

   Inspect weekly or within 24hrs after a rainfall event of .5 inch or more, whichever is sooner.

   Describe the general procedures for correcting problems when they are identified. Include responsible staff and time frames for making corrections: The contractor or his elected representative will be responsible for correcting any identified deficiencies in the installed or necessary erosion and sediment control measures. Corrections will be made within 7 days of notification.

   See Appendix E for attached inspection report.

## 5.2 Delegation of Authority

**Duly Authorized Representative(s) or Position(s):**

**Company or Organization Name**: _____
**Name**: _____
**Position**: _____
**Address**: _____
**City, State, Zip Code**: _____
**Telephone Number**: _____
**Fax/Email**: _____

See Appendix K for attached delegation of authority form.

## *5.3 Corrective Action Log*

**Corrective Action Log:** See Appendix F.

# SECTION 6: RECORDKEEPING AND TRAINING

## 6.1 Recordkeeping

**Records will be retained for a minimum period of at least 3 years after the permit is terminated.**

**Date(s) when major grading activities occur**: See Appendix I.
**Copy of Construction General Permit**: See Appendix C – Attach when received
**Signed and Certified application form**: See Appendix D – Attach when received
**Copy of Letter from (agency) notifying of their receipt of your complete application**: See Appendix D – Attach when received
**Date(s) when grading activities temporarily or permanently cease on a portion of the site**: See Appendix I.
**Date(s) when an area is either temporarily or permanently stabilized**: See Appendix I.
**Inspection Reports**: See Appendix E

## 6.2 Log of Changes to the SWPPP

**Log of changes and updates to the SWPPP:**
See Appendix G.

## 6.3 Training

**Individual(s) Responsible for Training**: Contractor.

**Describe Training Conducted**:

- General stormwater and BMP awareness training for staff and subcontractors: See Appendix J.
- Detailed training for staff and subcontractors with specific stormwater responsibilities: See Appendix J.

# SECTION 7: FINAL STABILIZATION

| | |
|---|---|
| ***BMP Description:*** *Permanent Seeding or Sodding, and Final Landscaping* | |
| ***Installation Schedule:*** | Once final grading has been completed |
| ***Maintenance and Inspection:*** | Inspection weekly or within 24hrs after a rainfall event of .5 inch or more, whichever is sooner, or until all permanent measures have been established. |
| ***Responsible Staff:*** | Contractor |
| ***BMP Description:*** *Final Paving* | |
| ***Installation Schedule:*** | Once final grading has been completed |
| ***Maintenance and Inspection:*** | Inspection weekly or within 24hrs after a rainfall event of .5 inch or more, whichever is sooner, or when paving operations are complete. |
| ***Responsible Staff:*** | Contractor |

# SECTION 8: CERTIFICATION AND NOTIFICATION

I certify under penalty of law that this document and all attachments were prepared by the person performing the inspection of the Erosion and Sediment Control measures and to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: _____ Title: _____

Signature: _____ Date: _____

# SWPPP APPENDICES

Attach the following documentation to the SWPPP:

***Appendix A – General Location Map***

***Appendix B – Phased Erosion Control Drawings***

***Appendix C – Construction General Permit***

***Appendix D – Land Disturbance Permit and Acknowledgement Letter from EPA/State***

***Appendix E – Inspection Reports***

***Appendix F – Corrective Action Log (or in Part 5.3)***

***Appendix G – SWPPP Amendment Log (or in Part 6.2)***

***Appendix H – Subcontractor Certifications/Agreements***

***Appendix I – Grading and Stabilization Activities Log (or in Part 6.1)***

***Appendix J – Training Log***

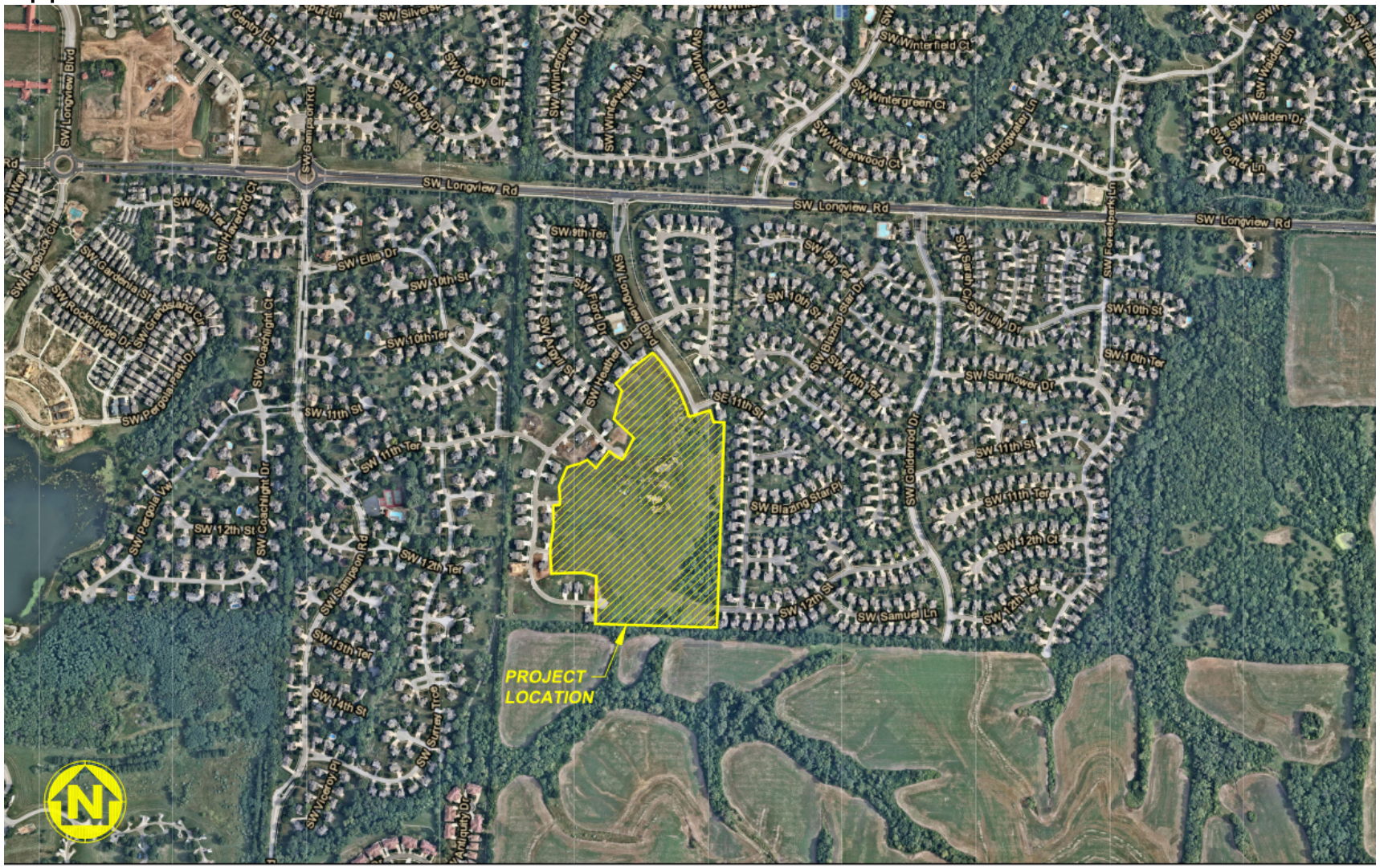
***Appendix K – Delegation of Authority***

***Appendix L – Endangered Species and Historic Preservation Documentation***

***Appendix M – Notice of Intent (NOI)***

***Appendix N – Soil Report***

# Appendix A – General Location



# Appendix B – Phased Erosion Control Drawings

# Appendix C – Construction General Permit

Stored at:
1100 SW Heather Drive
Lee's Summit, MO 64081

# Appendix D – Land Disturbance Permit and Acknowledgement Letter from EPA/State

Stored at:
1100 SW Heather Drive
Lee's Summit, MO 64081

# Appendix E – Inspection Reports

# Appendix F – Corrective Action Log

**Project Name:** Highland Meadows 5th and 6th Plat
**SWPPP Contact**: Zach Myers

| Inspection Date | Inspector Name(s) | Description of BMP Deficiency | Corrective Action Needed (including planned date/responsible person) | Date Action Taken/Responsible person |
|---|---|---|---|---|
| | | | | |
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| | | | | |

# Appendix G – SWPPP Amendment Log

**Project Name:** Highland Meadows 5th and 6th Plat
**SWPPP Contact:** Zach Myers

| Amendment No. | Description of the Amendment | Date of Amendment | Amendment Prepared by [Name(s) and Title] |
|---|---|---|---|
| | | | |
| | | | |
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# Appendix H – Subcontractor Certifications/Agreements

SUBCONTRACTOR CERTIFICATION
STORMWATER POLLUTION PREVENTION PLAN

Project Number: _____

Project Title: _____

Operator(s): _____

As a subcontractor, you are required to comply with the Stormwater Pollution Prevention Plan (SWPPP) for any work that you perform on-site. Any person or group who violates any condition of the SWPPP may be subject to substantial penalties or loss of contract. You are encouraged to advise each of your employees working on this project of the requirements of the SWPPP. A copy of the SWPPP is available for your review at the office trailer.

Each subcontractor engaged in activities at the construction site that could impact stormwater must be identified and sign the following certification statement:

**I certify under the penalty of law that I have read and understand the terms and conditions of the SWPPP for the above designated project and agree to follow the BMPs and practices described in the SWPPP.**

This certification is hereby signed in reference to the above-named project:

Company: _____

Address: _____

Telephone Number: _____

Type of construction service to be provided: _____

_____

_____

Signature: _____

Title: _____

Date: _____

# Appendix I – Grading and Stabilization Activities Log

**Project Name:** Highland Meadows 5th and 6th Plat
**SWPPP Contact:** Zach Myers

| Date Grading Activity Initiated | Description of Grading Activity | Date Grading Activity Ceased (Indicate Temporary or Permanent) | Date When Stabilization Measures are Initiated | Description of Stabilization Measure and Location |
|---|---|---|---|---|
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| Date Grading Activity Initiated | Description of Grading Activity | Date Grading Activity Ceased (Indicate Temporary or Permanent) | Date When Stabilization Measures are Initiated | Description of Stabilization Measure and Location |
|---|---|---|---|---|
| | | | | |
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# Appendix J – SWPPP Training Log

## Stormwater Pollution Prevention Training Log

Project Name: Highland Meadows 5th and 6th Plat

Project Location: Lee's Summit, MO

Instructor's Name(s):

Instructor's Title(s):

Course Location: _____ Date: _____

Course Length (hours): _____

Stormwater Training Topic: (*check as appropriate)*

- ❑ **Erosion Control BMPs**
- ❑ **Emergency Procedures**
- ❑ **Sediment Control BMPs**
- ❑ **Good Housekeeping BMPs**
- ❑ **Non-Stormwater BMPs**

Specific Training Objective:_____

_____

Attendee Roster: (*attach additional pages as necessary)*

| No. | Name of Attendee | Company |
|---|---|---|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |

# Appendix K – Delegation of Authority Form

## Delegation of Authority

I, _____ (name), hereby designate the person or specifically described position below to be a duly authorized representative for the purpose of overseeing compliance with environmental requirements, including the Construction General Permit, at the _____ construction site. The designee is authorized to sign any reports, stormwater pollution prevention plans and all other documents required by the permit.

_____ (name of person or position)
_____ (company)
_____ (address)
_____ (city, state, zip)
_____ (phone)

By signing this authorization, I confirm that I meet the requirements to make such a designation as set forth in _____ (Reference State Permit), and that the designee above meets the definition of a "duly authorized representative" as set forth in _____ (Reference State Permit).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

**Name:** _____

**Company:** _____

**Title:** _____

**Signature:** _____

**Date:** _____

# Appendix L – Endangered Species and Historic Preservation Documentation

Three endangered or protected species have habitat on or near the project site. The Northern Long-Eared Bat (Myotis septentrionalis) is a threatened species, and the Indiana Bat (Myotis sodalist) and Gray Bat (Myotis grisescens) are endangered species, however the site is not a critical habitat for these species.

# Appendix M – Notice of Intent (NOI)

# Appendix N – Soil Report