

AGENCY USE ONLY

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WATER PROTECTION BUREAU

FORM
SWPPP
 2018

Storm Water Pollution Prevention Plan (SWPPP) Form
Storm Water Discharge Associated With Construction Activity
MTR100000

READ THIS BEFORE COMPLETING FORM: The Form SWPPP is intended to assist operators in developing a SWPPP which complies with Part 3 of the General Permit for Storm Water Discharges Associated with Construction Activity (General Permit). It is the permittee's responsibility to ensure all required items in the General Permit are adequately addressed and that the SWPPP is developed, implemented, and maintained. Additional information may be needed to supplement the Form SWPPP. For additional information, please call: (406) 444-3080 or visit: <http://deq.mt.gov/wqinfo/mpdes/stormwaterconstruction.mcp>

Section A - SWPPP Status: (Check one)

New No prior SWPPP submitted for this site.

Modification Permit Number: MTR10 4 9 7 2 (Please specify these four numbers)

Section B - Facility or Site Information:

Site Name MOUNTAIN VIEW MEADOWS

Site Location SOUTH OF AND ADJACENT TO HWY-12, WEST OF HWY-282

Nearest City or Town HELENA County LEWIS AND CLARK/JEFFERSON

Section C - Applicant (Owner/Operator) Information:

Owner or Operator Name R & D PARTNERS LLC dba MOUNTAIN VIEW MEADOWS LLC

Mailing Address 431 SOUTH ALICE STREET

City, State, and Zip Code HELENA, MT, 59601

Phone Number (406) 431-7305

Section D SWPPP Preparer and SWPPP Administrator

SWPPP Preparer:

Name or Position Title KRIS BAKER

Mailing Address 431 SOUTH ALICE STREET

City, State, and Zip Code HELENA, MT, 59601

Phone Number 406-461-1348 Email kbakermvm@hotmail.com

Training Course SWPPP Administrator (ID# 17-003) Date Completed 1/20/2017

Primary SWPPP Administrator: Same as above

Name or Position Title GEOFF STREETER (SEPT. 2018 FORWARD)

Mailing Address 3530 CENTENNIAL DRIVE

City, State, and Zip Code HELENA, MT, 59601

Phone Number 406-451-2290

Email gstreeter@seaeng.com

Training Course BMP 201: SWPPP ADMINISTRATOR Date Completed 08/31/2016

Secondary SWPPP Administrator:

Name or Position Title _____

Mailing Address _____

City, State, and Zip Code _____

Phone Number _____

Email _____

Training Course _____

Date Completed _____

Section E – Site Description (Part 3.3)

1. Describe the nature of the construction activity and what is being constructed.

THE SCOPE OF WORK IS DEVELOPMENT ASSOCIATED WITH RESIDENTIAL AND COMMERCIAL CONSTRUCTION FOR THE MOUNTAIN VIEW MEADOWS SUBDIVISIONS. CONSTRUCTION ACTIVITIES FOR THE PROPOSED SUBDIVISIONS WILL INCLUDE: ROAD GRADING, ASPHALT PAVEMENT, MISCELLANEOUS SITE WORK, STORM WATER DETENTION FACILITIES, INSTALLATION OF MUNICIPAL SYSTEMS/NETWORKS (WATER, SEWER, STORM, UTILITIES), INSTALLATION OF PARKS, AND THE PRESERVATION OF EXISTING AND PLANNED OPEN SPACE AMENITIES.

2. Describe all support activities and associated storm water discharges dedicated to the construction activity including but not limited to: material borrow areas, material fill areas, concrete or asphalt batch plants, equipment staging areas, access roads/corridors, material storage areas, and material crushing/recycling /processing areas.

MATERIAL BORROW/FILL AREAS AND ASPHALT BATCH PLANTS DO EXIST ON-SITE, BUT OPERATE UNDER A SEPERATE SWPPP ASSOCIATED WITH MINING ACTIVITY. NO CONCRETE BATCH PLANTS ON-SITE. EACH PHASE OF CONSTRUCTION MAY GENERATE ADDITIONAL/ALTERNATE STAGING AREAS, MATERIAL STORAGE AREAS, AND ACESS ROADS. ALL MATERIAL CRUSHING/RECYCLING/PROCESSING TAKES PLACE WITHIN THE SEPERATE MINE BOUNDARY PERMIT.

3. Provide an estimate of the total area of the site, and an estimate of the area of the site expected to undergo construction-related disturbance (including all construction-related support activities).

Total Site Area (acres): 800

Area of Construction-Related Disturbance (acres): 76

4. Describe the character and erodibility of soil(s) and other earth material to be disturbed at the site, including cut/fill material to be used.

A REVIEW WAS CONDUCTED OF THE LEWIS AND CLARK COUNTY AND JEFFERSON COUNTY SOIL SURVEYS PUBLISHED BY THE NRCS. THE SOIL WITHIN THE PROJECT AREA CONSISTS GENERALLY OF THE MUSSELSHELL-CARGO COMPLEX, CRAGO-MUSSELSHELL GRAVELLY LOAMS, AND SUPPINGTON-AMESHA COMPLEX. THE MAJORITY OF THESE SOILS ARE LOAMS, GRAVELLY LOAMS, AND SANDY LOAMS. THESE SOIL MATERIALS RANGED FROM MODERATE TO SEVERE EROSION HAZARD WITH A MEDIUM TO RAPID RUNOFF.

5. Provide a brief description of the existing vegetation at the site and an estimate of the percent density of vegetative ground cover.

MOUNTAIN VIEW MEADOWS VEGETATION CONSISTS MOSTLY OF NATIVE GRASSES WITH ROCK OUTCROPPINGS ALONG THE WESTERN EDGE OF THE PROPERTY.

Specify Percent Density of Existing Vegetation: 65%

6. For a storm water discharge associated with construction activity with construction-related disturbance of five acres or more of total land area (based on the acreage provided in item E.3 above):

a. Provide an estimate of the runoff coefficient of the site, both before and after construction, and describe what supporting information this determination is based upon:

Runoff coefficient before construction: 60

Runoff coefficient after construction: 85

Supporting Information Source: INTRODUCTION TO HYDROLOGY (5TH EDITION) - VISSMAN & LEWIS

b. Provide an estimate of the increase in impervious area after the construction activity is completed:
40 Percent.

7. In the Outfall table below, identify the name(s) of the first state surface water(s) that receives storm water from the construction project. Provide a description of the size, type, location of each outfall, and if the discharge is to a storm sewer system. To properly identify the state receiving water, locate the drainage(s) into which the construction project discharges. If additional outfalls are applicable, please include an attachment.

Outfall Number	Receiving Surface Water	Size of Drainage Area Associated with each Outfall	Type of Discharge	Latitude and Longitude of Outfall	Discharge to Municipal Storm Sewer System
001	ASPEN PARK POND	140	<input type="radio"/> Sheet <input checked="" type="radio"/> Concentrated	46.57667, -111.9358	<input type="radio"/> Yes <input checked="" type="radio"/> No
002	WINDY BOY POND	370	<input type="radio"/> Sheet <input checked="" type="radio"/> Concentrated	46.58083, -111.93565	<input type="radio"/> Yes <input checked="" type="radio"/> No
003	GRAVEL PIT POND	78	<input type="radio"/> Sheet <input checked="" type="radio"/> Concentrated	46.58472, -111.9356	<input type="radio"/> Yes <input checked="" type="radio"/> No
004	POWER LINE POND	246	<input type="radio"/> Sheet <input checked="" type="radio"/> Concentrated	46.59, -111.9453	<input type="radio"/> Yes <input checked="" type="radio"/> No
005	BAUCUS POND	1550	<input type="radio"/> Sheet <input checked="" type="radio"/> Concentrated	46.5903, -111.9553	<input type="radio"/> Yes <input type="radio"/> No
006	PRICKLY PEAR CREEK	2384	<input checked="" type="radio"/> Sheet <input type="radio"/> Concentrated	46.58735, -111.9193	<input type="radio"/> Yes <input type="radio"/> No
007			<input type="radio"/> Sheet <input type="radio"/> Concentrated		<input type="radio"/> Yes <input type="radio"/> No
008			<input type="radio"/> Sheet <input type="radio"/> Concentrated		<input type="radio"/> Yes <input type="radio"/> No
009			<input type="radio"/> Sheet <input type="radio"/> Concentrated		<input type="radio"/> Yes <input type="radio"/> No
010			<input type="radio"/> Sheet <input type="radio"/> Concentrated		<input type="radio"/> Yes <input type="radio"/> No

a. List the impaired receiving surface waters from the table above.

PRICKLY PEAR CREEK

Section F – Identification and Summary of Potential Pollutant Sources (Part 3.4)

Select the pollutants expected to be present on the construction project:

Soils

- Areas of Shallow Grade
- Areas of Steep Grade
- Slopes
- Ditch
- Stockpiles
- Contaminated Soils
- Import and Export Operations
- Entrance / Exit Locations
- Other Explain _____

Materials

- Loading and Unloading Operations
- Storage of building materials
- Storage of chemicals
- Portable Toilets
- Concrete Batch Plant
- Asphalt Batch Plant
- Worker Trash
- Demolition Materials / Debris
- Other Explain _____

Activities

- Concrete Truck Washout
- Masonry - Stone / Brick / Concrete
- Spray / Wand Applications
- Finish Work – Dry wall / Painting
- Equipment Washing
- Washing of Buildings
- Maintenance of Equipment
- Refueling Operations
- Application of herbicides, pesticides, fertilizers
- Application of solvents or detergents
- Construction Dewatering
- Other Explain _____

Additional Pollutants

List any additional pollutants likely to be present at the construction project.

NO ADDITIONAL POLLUTANTS LIKELY TO BE PRESENT AT THIS TIME

Non-Storm Water Discharges

Select the types of allowable non-storm water discharges likely to be present at the construction project.

Type of Allowable Non-Storm Water Discharge	Present at Construction Project	
Irrigation Drainage	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Landscape Watering	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Pavement Wash Waters	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Routine Building Wash Down	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Uncontaminated spring or ground water	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Water used for dust control	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Emergency fire-fighting activities	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Foundation or footing drains	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Incidental windblown mist from cooling towers	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Uncontaminated condensate from air conditioners, coolers, or other compressors	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Other Explain _____	<input type="radio"/> Yes	<input checked="" type="radio"/> No

Section G – Selection of Best Management Practices (BMPs) (Part 3.5)

Select the BMPs to be used during the construction project. All selected BMPs are required to have a specification provided in the SWPPP. The specifications do not have to be submitted to DEQ. The specifications are required to be maintained by the SWPPP Administrator(s) and provided to DEQ, EPA, or other local permitting authority upon request.

Erosion Control BMPs

- Surface Roughening
- Diversion Ditches
- Velocity Checks / Check Dams
- Preservation of Existing Vegetation
- Minimizing Ground Disturbance
- Mulch – Straw / Compost
- Tackifiers / Soil Binders
- Temporary Seeding
- Erosion Control Blankets
- Rough Cut Street Controls / Water Bars
- Channel Liner
- Stream Crossing
- Terracing
- Culvert
- Outfall / Outlet Protection (Rip Rap)
- Other _____

Run On / Runoff Control BMPs

- Temporary Slope Drain
- Rock Run Down
- Clean Water Diversion
- Drainage Swales
- Other _____

Sediment Control BMPs

- Silt Fence
- Straw Wattles
- Rock Wattles / Rock Socks
- Curb Socks
- Straw Bales
- Earthen Berms
- Vegetative Buffers
- Drainage Ditch / Ditch Berm
- Gravel Pack
- Tarps, Plastic, Visqueen
- Compost Socks
- Brush Barrier
- Sandbag Barrier
- Inlet Protection
- Vehicle Tracking Control Pad
- Stabilized Vehicle Entrance
- Stabilized Parking Area
- Stabilized Construction Roadway
- Street Sweeping
- Sediment Trap
- Sediment Basin
- Other _____

Administrative Controls

- Concrete and Liquid Waste Washouts
- Worker Toilets
- Construction Fencing
- Dust Control
- Secondary Containment
- Dumpsters / Waste Receptacles
- Stabilized Staging Area
- Material Storage and Stockpile Area
- Paving and Painting Controls
- Saw Cutting and Grinding Controls
- Spill Prevention and Response Procedures
- Traffic Control
- Back Charging / Penalties
- Other _____

Post Construction BMPs

- Detention Pond(s)
- Retention Pond(s)
- Drainage Swales
- Infiltration System(s)
- Dry Well(s)
- Other _____

Additional BMPs

List any additional BMPs likely to be used at the construction project.

NO OTHER BMPs LIKELY TO BE USED AT THIS TIME.

Local Erosion and Sediment Controls

Describe applicable local erosion and sediment control requirements.

A WEED CONTROL PLAN WAS DEVELOPED AS PART OF THE LEWIS AND CLARK COUNTY SUBDIVISION REVIEW.

THE CITY OF HELENA IS AN MS4 AND REQUIRES AN EROSION CONTROL PLAN PRIOR TO CONSTRUCTION ACTIVITY IN LOCATIONS OUTSIDE OF THE SUBMITTED SCOPE OF WORK AND NEW PHASES OF DEVELOPMENT.

Dewatering Activities (Part 3.6)

Describe dewatering activities associated with the construction project. Identify the BMPs to be used to control dewatering activities and prevent discharges to state waters. If a separate authorization is obtained under the Construction Dewatering General Permit, include the dewatering plan with the SWPPP.

CONSIDERING THE GRADING PROXIMITY TO KNOWN GROUNDWATER SOURCES, GROUNDWATER IS NOT A CONCERN IN THE AREA. IF GROUND WATER DEWATERING IS REQUIRED, GROUNDWATER WILL BE DISCHARGED TO THE SURFACE AND ACCOMODATED BY THE ON-SITE BMP'S. CONCIOUS CONSIDERATION WILL BE ADMINISTERED WHEN DIRECTING FLOWS FROM GROUNDWATER DEWATER EFFORTS. ADDITIONAL BMP'S WILL BE INSTALLED AS NECESSARY TO EFFICIENTLY CONVEY THE DEWATERING EFFORTS.

Dewatering activities will be controlled on-site with no discharge to state waters.

Provide a description of BMPs to be used to control dewatering activities on-site.

GROUND WATER DEWATERING ACTIVITIES IS NOT EXPECTED WITHIN THE PROJECT BOUNDARIES. IF NEEDED, THE SWPPP WILL BE UPDATED TO INCLUDE ADDITIONAL BMP'S TO CONTROL DEWATERING ACTIVITIES.

Separate authorization obtained under the Construction Dewatering General Permit.

MPDES Permit Authorization Number: MTG07____

Dewatering plan is attached to the SWPPP for the separate authorization.

Section H: Major Construction Activity and BMP Phasing (Part 3.7)

Identify the total number of major construction activities associated with the project: 6 _____

Complete the table below by listing the major construction activities in the top row. List the selected BMPs to be used for the construction project in the first column. Select the box in the row and column that will represent when the BMP will be used for each major construction activity. For additional major construction activities and BMPs, complete another sheet using this page.

BMPs	Major Construction Activity									
	CLEAR & GRUB	INSTALLATION OF UTILITIES	CURB & GUTTER	PAVEMENT	BUILDING OF HOUSES	LANDSCAPING				
SURFACE ROUGHENING	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				<input type="checkbox"/>
DIVERSION DITCHES	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>
CHECK DAMS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>
PRESERVATION OF EXISTING VEGETATION	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input type="checkbox"/>
MINIMIZING GROUND DISTURBANCE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<input type="checkbox"/>
TEMPORARY SEEDING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				<input type="checkbox"/>
CULVERTS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>
OUTFALL/OUTLET PROTECTION	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>
TEMP. SLOPE DRAIN	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>
DRAINAGE SWALES	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>

Section H: Major Construction Activity and BMP Phasing (Part 3.7)

Identify the total number of major construction activities associated with the project: 6

Complete the table below by listing the major construction activities in the top row. List the selected BMPs to be used for the construction project in the first column. Select the box in the row and column that will represent when the BMP will be used for each major construction activity. For additional major construction activities and BMPs, complete another sheet using this page.

Major Construction Activity									
BMPs	CLEAR & GRUB	INSTALLATION OF UTILITIES	CURB & GUTTER	PAVEMENT	BUILDING OF HOUSES	LANDSCAPING			
STRAW WATTLES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
ROCK WATTLES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
EARTHEN BERMS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
VEGETATIVE BUFFERS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input type="checkbox"/>
DRAINAGE DITCH	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
INLET PROTECTION	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input type="checkbox"/>
SEDIMENT BASIN	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
CONCRETE WASHOUTS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input type="checkbox"/>
WORKER TOILETS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input type="checkbox"/>
DUST CONTROL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input type="checkbox"/>

Section H: Major Construction Activity and BMP Phasing (Part 3.7)

Identify the total number of major construction activities associated with the project: 6

Complete the table below by listing the major construction activities in the top row. List the selected BMPs to be used for the construction project in the first column. Select the box in the row and column that will represent when the BMP will be used for each major construction activity. For additional major construction activities and BMPs, complete another sheet using this page.

Major Construction Activity									
BMPs	CLEAR & GRUB	INSTALLATION OF UTILITIES	CURB & GUTTER	PAVEMENT	BUILDING OF HOUSES	LANDSCAPING			
MATERIAL STORAGE/STOCKPILE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input type="checkbox"/>
SPILL PREVENTION & RESPONSE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input type="checkbox"/>
TRAFFIC CONTROL	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
DETENTION PONDS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>

Major Construction Activity Schedule (Part 3.7)

List the major construction activities identified in the table above and provide an estimated timeframe for each major construction activity. For each major construction activity, identify all construction activities that will occur during the proposed major construction activity.

MOUNTAIN VIEW MEADOWS IS AN ON-GOING PROJECT WITH NEW PHASES ADDED AS OLD PHASES ARE BUILT OUT. WHEN A NEW PHASE OF THE PROJECT IS STARTED, USUALLY THE TIME FROM CLEARING AND GRUBBING TO PAVEMENT TAKES NO LONGER THAN 7-MONTHS. THE BUILDING OF HOUSES THROUGH THE LANDSCAPING IS DEPENDANT UPON LOT SALES. WHEN THE FINAL HOUSES IN EACH PHASE ARE BUILT, ALL LOTS WILL HAVE PERMANENT LANDSCAPING AND HARDSCAPING IN PLACE. ALL CONSTRUCTION ACTIVITIES ARE IN ORDER AS FOLLOWS: CLEARING AND GRUBBING, INITIAL SUBGRADE OF SITE, INSTALLATION OF UTILITIES (SEWER, WATER, STORM, AND GAS/ELECTRICAL), INSTALLATION OF CURB AND GUTTER, PAVEMENT, LOT EXCAVATION/BACKFILL, AND LANDSCAPING.

Section I – Final Stabilization (Part 3.8)

Identify the BMPs that will be used to achieve final stabilization. Information to be included is seed mix selection and application methods, soil preparation and amendments, soil stabilization practices, and any temporary BMPs.

RECLAMATION OF THE SITE WILL INCLUDE RE-SEEDING ANY AREAS THAT WILL NOT BE HARD SURFACED TO PREVENT EXCESS RUNOFF AND POTENTIAL CONTAMINATES FROM LEAVING THE SITE. RE-SEEDING WILL PREVENT POST-CONSTRUCTION EROSION ISSUES. SEED MIX WILL BE CHOSEN THAT CONTAINS AGRESSIVE, QUICK ESTABLISHING GRASSES TO MINIMIZE EROSION. SOIL WILL BE SCARCIFIED PRIOR TO SEEDING TO PREPARE A FAVORABLE SEEDBED. IF BROADCAST SEEDING IS USED, THE SEED RATE WILL BE DOUBLED DUE TO BROADCAST SEEDING BEING LESS OPTIMAL COMPARED TO SEED PLACEMENT. SEEDING WILL TAKE PLACE IN ACCORDANCE WITH THE RECOMMENDED SEED MIX TIME FRAME. ADDITIONAL STABILIZATION MEASURES MAY BE IMPLEMENTED ON A CASE-BY-CASE BASIS AS DICTATED BY SITE DEVELOPMENT AND VARIOUS CONSTRUCTION ACTIVITIES. THE BANKS OF ALL DETENTION PONDS WILL BE MAINTAINED, RE-SEEDED IF NECESSARY, AND INCORPORATE OTHER MEASURES NOT EXPLICITLY MENTIONED TO AID IN EROSION AND SEDIMENT CONTROL.

Section J – Post-Construction Storm Water Management (Part 3.9)

Identify BMPs that will be used to control storm water discharges that will occur after the major construction activities are complete. Include a description of applicable local requirements.

FIVE DETENTION PONDS LOCATED AT THE OUTFALL LOCATIONS WILL REMAIN AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED. ALL STORM DRAINS AND ON-SITE DRAINAGE SWALES/DITCHES LEAD TO THESE DETENTION PONDS CREATING A SELF DRAINING SITE WITH MINIMAL PROBABILITY OF STORM WATER LEAVING THE SITE BOUNDARIES TO OUTFALL-6 AT PRICKLY PEAR CREEK. THESE PONDS MEET THE CITY OF HELENA STORM DRAINAGE REQUIRMENTS. ALL NON-HARDSCAPED AREAS WILL BE RE-SEEDED PROVIDING A VEGETATIVE BUFFER FOR EROSION CONTROL.

Section K – Site Map (Part 3.10)

Develop and attach the required SWPPP site maps and plans with the SWPPP. The site maps or plans must clearly indicate all the required information in *Part 3.10* of the General Permit. This means SWPPP site maps must be of sufficient size, scale, and legibility.

Section L – Inspection and BMP Maintenance Procedures (Part 3.11)

Select the inspection schedule for the construction project:

Once every 7 calendar days

Once every 14 calendar days, and a post-storm event inspection within 24 hours of the end of a rainfall event of 0.25 inches or greater, and/or within 24 hours of runoff from snowmelt. Check one: The rainfall event will be determined by either a rain gage on site or the following weather service: NATIONAL WEATHER SERVICE-HELENA, MT.

Describe the inspection and maintenance procedures that will be used to maintain all erosion, sediment control, and other BMPs in good and effective operating condition. Identify how changes to the SWPPP will occur per Part 3.12 of the General Permit. If post construction BMPs will be used during major construction activities, include a maintenance plan that will transition the BMP from active construction to post construction.

INSPECTION OF THE SITE WILL BE CONDUCTED ON A ROUTINE BASIS DESCRIBED ABOVE. THE SWPPP INSPECTOR WILL BE IN DIRECT CONTACT WITH THE CONTRACTOR FOLLOWING ALL INSPECTIONS TO INFORM OF ANY CORRECTIONS, ALTERATIONS, OR ADDITIONS NEEDED. INSPECTIONS WILL INCLUDE ALL LOCATIONS OF ACTIVE CONSTRUCTION TO CONFORM TO SECTION 2.3.4 OF THE GENERAL PERMIT. INSPECTION RECORDS WILL BE KEPT AND RECORDED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR (MOUNTAIN VIEW MEADOWS) TO CORRECT ANY ISSUES FOUND FROM THE ADMINISTRATORS INSPECTIONS. THE ADMINISTRATOR (STAHLY ENGINEERING & ASSOCIATES) IS NOT RESPONSIBLE NOR HAS THE MEANS TO INSTALL OR MAINTAIN BMP'S.

Section M – Water Quality Controls for Discharges to Impaired Water bodies (Part 2)

Describe BMPs that target and reduce discharges of identified pollutants of impairment to impaired waterbodies. The permittee should only describe additional BMPs based on their construction activities pollutant sources. Include any applicable TMDL condition, goal, requirement, implementation intent, or specific controls or requirements as directed by the Department.

PRICKLY PEAR CREEK IS AN IMPAIRED WATERBODY. THE POLLUTANTS OF CONCERN INCLUDE: ALTERATION IN STREAM-SIDE OR LITTORAL VEGETATIVE COVER, AMMONIA, ARSENIC, CADMIUM, COPPER, LEAD, LOW FLOW ALTERATIONS, TOTAL NITROGEN, TOTAL PHOSPHOROUS, PHYSICAL SUBSTRATE, HABITAT ALTERATIONS, SEDIMENTATION/SILTATION, WATER TEMPERATURE, AND ZINC.

THIS PROJECT IS NOT PRODUCING ANY ACID MINE POLLUTANTS AND IS NOT PART OF AN ABANDONED MINE LAND. DETENTION PONDS, SEDIMENT CONTROLS, AND EROSION CONTROL MEASURES IDENTIFIED IN THIS SWPPP WILL PREVENT SEDIMENT LADEN AND OTHE RPOLLUTANT RUN-OFF FROM ENTERING THE IMPAIRED WATERBODY. PRICKLY PEAR CREEK IS LOCATED APPROXIMATELY 1.0 MILE FROM THE NEAREST AREA OF GROUND DISTURBANCE WITH NATURAL VEGETATIVE BUFFERS BETWEEN THE DISTURBED AREAS AND THE CREEK TO PREVENT POLLUTANTS/SEDIMENT FROM ENTERING THE IMPAIRED WATERBODY. AS DESCRIBED EARLIER, THE BOUNDARY SLOPES AND DRAINAGE SWALES/DITCHES CREATE A SELF DRAINING SITE WITH ALL WATER FLOWING INTO ON-SITE DETENTION PONDS MINIMIZING THE CHANCE OF RUN-OFF TO THE IMPAIRED WATER-BODY.

Section N – Miscellaneous Information

Use this space to identify miscellaneous information that is to be included in the SWPPP.

SWPPP HAS BEEN UPDATED TO INCLUDE: NEW SWPPP ADMINISTRATOR, ALTERATIONS OF BMP'S, MORE ACCURATE OUTFALL SPECIFICATIONS, AND ADDITIONAL DETAILS IN CERTAIN SECTIONS TO REPRESENT THE CHARACTERISTICS OF THE SITE.

Section O - CERTIFICATION

Permittee Information: This SWPPP must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

Alternatively, this SWPPP may be signed by a duly authorized representative of the person above. A person is a duly authorized representative only if:

- The authorization is made in writing by a person described above;
- The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company (a duly authorized representative may thus be either a named individual or any individual occupying a named position);
- The written authorization is submitted to the department.

All Permittees Must Complete the Following Certification:

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 gather and evaluate the information submitted. Based on my inquiry of the 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. [75-5-633, MCA]

A. Name (Type or Print)

MARK L RUNKLE

B. Title (Type or Print)

OWNER

C. Phone No.

406-431-7305

D. Signature

E. Date Signed

Sept 10, 2018

The Department will not process this form until all of the requested information is supplied, and the appropriate fees are paid. Return this form and the applicable fee to:

Department of Environmental Quality
 Water Protection Bureau
 PO Box 200901
 Helena, MT 59620-0901
 (406) 444-3080