



## Berry F-01 697 Interim Site Stabilization Plan

### STORMWATER BMP DESCRIPTION:

1. **Perimeter Toe Trench-** A sediment and erosion control BMP installed at the limits of disturbance prevent run-off from leaving disturbed areas by intercepting and diverting it to a sediment trapping device.
2. **Roadside Ditch #1-** A roadside ditch constructed along the access road leading to the well pad. Roadside ditches are channels constructed parallel to roads. Ditches convey concentrated run-off of surface water from roads and surrounding areas to sediment control BMPs where the surface water can then be properly treated.
3. **Temporary Earthen Berm-** Earthen berm constructed along the access road typically on the fill slope side to contain sediment and help convey stormwater to appropriate down gradient sediment control BMPs. Berm will be compacted to BMP specifications to ensure structural integrity, and prevent erosion on the down gradient slope of the berm.
4. **Run-On Ditch (diversion ditch)-** Constructed at the toe of the location's cut slope to prevent run-on from reaching the pad surface and high use areas. Purpose is to intercept stormwater run-on from the cut slope and properly convey it to a sediment control structure.
5. **Sediment Traps #1, 2, 3,4-** An earthen pond constructed to allow sediment to settle out of runoff water that may come from the disturbed area and/or additional BMPs.
6. **Rock Run-Down-** A rock rip rap drainage channel constructed to convey run-off overflow from the cut slope run-on ditch to sediment trap #4.
7. **Surface Roughening-** Horizontal ripping, stair-stepping, grooving, tracking, or pocketing slopes to reduce erosion. Purpose is to reduce run-off velocity, increase infiltration, reduce erosion, trap sediment, and prepare soil for seeding and planting. *Surface Roughening shall be utilized on all areas receiving re-vegetation efforts.*
8. **Seeding and Mulching-** Seeding and mulching slopes to establish perennial vegetation in order to stabilize disturbed areas. Purpose is to reduce erosion, decrease sediment yield, combat undesirable weed infestations, and improve wildlife habitat.

## **Berry F-01 697 Fresh Water Pit Final Reclamation Plan**

### **FINAL RECLAMATION DETAILS**

1. Fresh Water pit area will be re-shaped to near pre-disturbance contours.
2. Topsoil will be applied at an adequate depth to all disturbed areas. Minimum recommended topsoil depth is 4 inches.
3. All disturbed areas will be surface roughened using the most effective form. This form will be determined after topsoil is applied. Track walking, cross ripping, or pocketing will all be considered.
4. Soil amendments will be applied prior to seeding. The soil amendment blend and application rate will be determined at the time of final reclamation.
5. The seed mix and application rate will be determined and approved by the land owner and operator at the time of final reclamation.
6. All disturbed areas will be drill seeded on contours. The drill seeder used by contractor will be approved by operator (LINN Operating, Inc.). Seed application rate will be appropriately verified and documented by contractor and operator.
7. All seeded areas will be mulched and tackified. Application rates for mulch and tackifier will be determined at the time of final reclamation. Type of mulch and tackifier will be determined and approved by the operator at the time of final reclamation.
8. If applicable, mulch will be crimped on contours.
9. Compliance inspections will be conducted according to regulations until the site meets all requirements.