Hands On Exercise – Part 1
Project Description

We have been contracted to grade a construction site and build a foundation for a utility building. As the Environmental Specialists, you have been asked to provide bid quantities for the Temporary BMP Items needed to perform this project.

Instructions:

- Review the information on this sheet, the Plan Sheet, and the Schedule.
- Fill out the first column of the Bid Sheet with what quantities you think will be needed to complete this project.
- You will need this information for Part 2 of this exercise later in the day.

Project Information:

- We are responsible for installation and maintenance of BMPs necessary for our work.
- This is part of a larger project covered by the Construction General Permit that is a Risk Level 2. The larger project employs the QSP that will develop the REAPs and sample for Qualifying Storm Events.
- The building will be built by another contractor at a later date.
- The entire project site drains to the North West.
- The project location has a historical average of 1 rain event between September and October that produces 0.5” of rain.
- All disturbed soil areas will be covered once final landscaping is in place.
- The site is split up into three Locations (turn over the page for more details):
**Location A**
1. We will excavate a small hill and move dirt (4,000 Cubic Feet) to Location B. This excavation site will become a depression that will be used as a vegetated settling pond.
2. We will build a retaining wall at the south end of the excavation to stabilize the driveway.
3. We will build a driveway to the new foundation. Utilities running to the foundation will be placed under the driveway.
4. Final landscaping will be installed.

**Location B**
1. Soil from Location A will be used to fill in a low spot underneath the new foundation.
2. We will run the utility connections from the driveway to beneath the foundation.
3. We will build the foundation.
4. Final landscaping will be installed.

**Location C**
1. We will excavate a 5’ wide pathway behind the building that will connect to existing paths.
2. We will use the excavated dirt (900 Cubic Feet) from the pathway to create a mount (at a 4:1 slope) at the north end of Location C for esthetical purposes.
3. Electrical lines and water lines will be installed for sprinklers.
4. Final landscaping will be installed.
# Hands On Exercise – Part 1 & 2

## Bid Sheet

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<th>Item No.</th>
<th>CASQA BMP#</th>
<th>Description</th>
<th>Unit</th>
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<td>Concrete Washouts</td>
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Hands On Exercise – Part 1
Project Plans

Legend
- Excavation Areas
- Fill Areas
- Building Foundation
- Driveway
- Retaining Wall
- Existing Drain Inlet
- Drainage Flow
- Utility Line

Location A
- Excavation for Area B
- Building Foundation
- Fill Dirt from Area A below Foundation
- Driveway
- Utility Line

Location B
- Building Foundation
- Fill Dirt for Landscape Mound
- Driveway

Location C
- Fill Dirt for Landscape Mound
- Excavation for Pathway

Legend:
- Drainage Flow
- Utility Line
- Existing Drain Inlet
- Retaining Wall
- Driveway
- Building Foundation
- Fill Areas
- Excavation Areas
# Hands On Exercise - Part 1
## Project Schedule

### Location A
- **Excavate Area A & Haul to Area B**
- **Build Retaining Wall Footings**
- **Pour Concrete for Footings**
- **Build Retaining Wall**
- **Pour Concrete for Retaining Walls**
- **Backfill Soil at Retaining Wall**
- **Install Utilities under New Driveway**
- **Build Driveway**
- **Install Final BMPs**

### Location B
- **Fill and Grading for New Foundation**
- **Install Utilities under New Foundation**
- **Pour Concrete for Footings**
- **Form Foundation Slab**
- **Pour Concrete for Foundation Slab**
- **Install Final BMPs**

### Location C
- **Excavate Path & Grade Mound**
- **Install Electrical and Waterline**
- **Install Landscaping**

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<tr>
<th>Month</th>
<th>Location A</th>
<th>Location B</th>
<th>Location C</th>
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