

**Request for Proposals
Town of Old Orchard Beach, Maine
Comprehensive Drainage Study**

Responses to Questions

The following responses are being provided to all firms who have expressed an interest in the proposed Drainage Study for Old Orchard Beach.

Summary of Proposal:

The overall goal of the project will be to assess the capacity for growth and the constraints on growth given the hydrology dynamics of the open-and-closed stormwater systems. The total land area of Old Orchard Beach must be considered, public and private.

As indicated, the town does have a well-established digital representation of its hydrology. The data takes several forms: 1) mapped physical structures and their interconnectedness, 2) mapped streams, rivers, wetlands and waterbodies, 3) modeled drainage, 4) derived watershed boundaries, 5) terrain information, and 6) some built-environment including building footprints, and paved surfaces. In short, it is a rich dataset from which to model.

However, the successful consultant must consider that there will be gaps in the data including in the closed stormwater system. For instance of the 1,616 individual length of stormwater pipes, 650 do not show a size. There is little information on the vertical attributes such as rim elevations or elevations-on-datum. There are potentially un-mapped cross-culverts. Some of the larger campground data may be missing. Additionally, some of the terrain information may be out-of-date owing to development since the data was developed from 2001 and 2006 orthophotography.

The town would like to minimize the degree of assumptions that would have to be made in any model. A successful bid would allow for a gap analysis of the existing data. However, the focus should be on modeling the capacity of the study to guide the town in permitting future development.

To the specific questions received thus far:

1. Does the town have a budget for this study?
The Town Council allocated \$40,000 for this study.

2. Can we contact Thomas Burns at GIS Mapping & Analysis directly to discuss the type and accuracy of data that is currently in the GIS?
Yes, his contact information is below. All data are in an Esri File Geodatabase, Maine State Plane Coordinates, West Zone, NAD83, US Survey feet. Data transmission of this format preferable. However, it is understood that data can be converted to AutoCAD format but with a loss of some attribute data.

3. The RFP states in No. 2 of Services to be Performed, “Perform field investigations to verify major stormwater infrastructure facilities”. Can you define what is considered “major”?
Anything that can be done to minimize assumptions of the carrying capacity of the closed system should be considered ‘major. It is understood that the emphasis is on the model not an exhaustive mapping project.
4. Is the town looking to investigate and evaluate all the drainage infrastructure as shown on the current GIS?
No, but as indicated above gaps in the data would need to be identified and investigated.
5. Does the town want the selected consultant to find additional infrastructure not shown on the GIS?
Yes, if it increases the accuracy of the model.
6. Would the Dunegrass development be included?
Yes, to the extent that Dunegrass discharges storm water into the Town’s drainage ways.
7. Is the work to include an investigation to find additional town owned infrastructure that is not on the GIS?
Yes, particularly if the modeling would be compromised if that information were missing.
8. Is the analysis and evaluation to include roadside ditch and driveway culvert drainage systems?
Yes, to the degree that the ditches are part of the open system. Many ditches have already been mapped. Many driveway culverts have also been mapped but the consultant would have to balance the degree to which driveway culverts are found and mapped against the time spent on a valid modeling outcome..
9. Does the town have a list and/or location of all town owned road culverts? We see that MDOT has identified two bridges over Milliken Brook and Goosefare Creek.
Most ‘cross-culverts’ have been mapped but the assumption is not all are showing presently on the town’s GIS.
10. Could we get responses to other consultants’ questions?
Yes, if there are other questions, another response such as this one will be distributed to all interested parties. Additionally, we will post responses on the town’s website.

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