Starkweather Creek/Olbrich Gardens and Upper Badger Mill Creek Watershed Study RFP Questions
City of Madison, WI
Questions received by: 4:00 pm January 6th, 2021
Answers posted by: 4:00 pm January 8th, 2021

Both Watershed Study RFPs

1. Can the City provide their anticipated budget for consultant fees?

   What is the City's anticipated design and construction budget for this project?

   The City does not have a specific anticipated budget for either study. The City has an overall budget of $1,000,000 for the overall flood study program for 2021. This budget includes more than just the Starkweather Creek/Olbrich Gardens and Upper Badger Mill Creek Watershed Studies. It also includes City staff labor, amendments for Round 1-3 Watershed Studies, USGS Monitoring Support, etc.

   The Lower Badger Mill Creek Watershed Study cost was $86,460. The watershed size for the Lower Badger Mill Creek Watershed is similar to the Upper Badger Mill Creek Watershed Study area. The scope for both studies is very similar. When asked, the consultant for the Lower Badger Mill Creek Watershed Study indicated the budget was comfortable for the amount of effort expended. Therefore, the City is expecting the budget for Upper Badger Mill Creek Watershed Study will be in the same range as the Lower Badger Mill Creek Watershed Study was.

   The City understands the Starkweather Creek/Olbrich Gardens Watershed Study area is larger than the study area for any of the Round 1-3 Watershed Studies. If the total project cost is greater than the City's current budget, the intent is to split the cost of the study over two years with Existing Conditions being completed in 2021 and Proposed Conditions being completed in 2022. If this occurs, the City will work through this process with the selected Consultant.

   There is no design or construction associated with either study.

2. Project meetings are identified as in-person meetings at places in the RFP. Can they be held virtually during the Covid-19 pandemic? Can virtual meetings be held following the pandemic?

   The current thinking is that the initial project meetings (through the Fall of 2021) will be virtual and the remaining will be in-person. But, we understand with the ever-changing pandemic situation, this could change.

   If, at times during the project after the pandemic is over, the City and Consultant feel a virtual meeting(s) make sense for some of the project meetings, then we can choose to hold them that way at that time.

   Include both virtual and in-person meeting costs and the assumption of how many will be virtual and how many will be in-person.

Starkweather Creek/Olbrich Gardens and Upper Badger Mill Creek Watershed Study RFP Questions
City of Madison, WI
Questions received by: 4:00 pm January 6th, 2021
Answers posted by: 4:00 pm January 8th, 2021

3. What is the City's current XP SWMM license configuration? (number and type of licenses and any add-ons)

   The City currently has 1 XPSWMM Premium Bundle and 1 XPSWMM Complete Bundle. Both Bundles have the GPU-Add on. The City has explored obtaining the Multiple Domain Add-on, but has decided not to purchase it at this time. Innovyze Support maintenance is current.
   The City has v2019.1, v2019.2, v2019.3, and v2020.1.

   The City also has licenses of PC-SWMM Professional 2D. Maintenance is current.

Starkweather Creek/Olbrich Gardens Watershed Study RFP

1. The RFP notes that the consultant will survey features not surveyed by the City, and that the consultant will determine where additional surveying is needed in collaboration with the City. How does the City prefer consultants estimate the level of effort for surveying in the proposal given that these needs are unknown at this time?

   The data the City is providing for the current stormwater conveyance system is contained in the GIS data provided with the RFP. Site plans for properties where site plans are available and not in the GIS data are also provided. The City is surveying all City storm structures were the invert elevation is "zero" in the GIS data for all pipes 18-inches or larger. The Consultant should assume they will need to collect any other data that they feel is necessary for the computer modeling.

2. What are the number and types of USGS monitoring sites in the watershed?

   How many monitoring locations are there within the Starkweather Watershed? What type of information is being collected at each location?

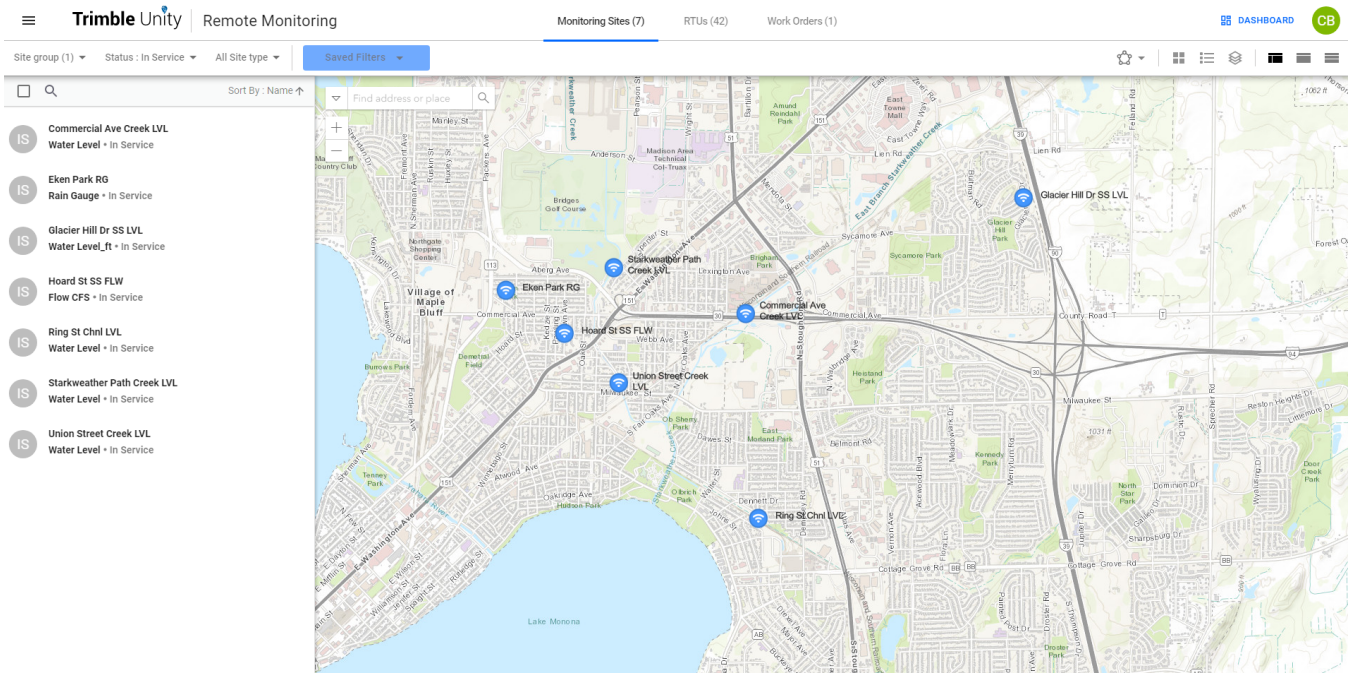
   Currently there are no USGS monitoring sites in the watershed. The City is working on an agreement to install USGS gages and they could be installed in 2021. Consultants will have access to this data if the USGS gages are installed.

   There are 6 City gages (gages that the City has installed with the help of the USGS, but are not as robust as a typical USGS-gaging system). They have been placed in areas where backwater is not an issue (as much as possible).

   Five of the City gages are level gages and one is a flow gage.

   A screen capture of the gage locations from the Trimble Unity site (which the selected consultant will receive access to) is shown below:

Starkweather Creek/Olbrich Gardens and Upper Badger Mill Creek Watershed Study RFP Questions
City of Madison, WI
Questions received by: 4:00 pm January 6th, 2021
Answers posted by: 4:00 pm January 8th, 2021



3. RFP section 3 (Roles & Responsibilities) Item 4 says "The City will create a public engagement plan." How does this relate to the consultant's preparation of a public outreach and engagement plan for areas with an Area Deprivation Index greater than 5?

   The City public engagement plan noted in this item refers to the Public Participate Resource Guide listed in the RFP https://www.cityofmadison.com/civil-rights/documents/EngagementGuide_web.pdf and the public outreach and educations materials/processes created through the first three rounds of watershed studies (Public Information Power Points/supporting information and Focus Group supporting information).

4. What level of involvement can we expect from city Racial Equity and Social Justice Initiative staff that prepared the Public Participation Resource Guide?

   The Department of Civil Rights staff engaged in the Racial Equity and Social Justice Initiative will provide guidance and oversight as questions from Engineering come up. The Engineering staff engaged in the Racial Equity and Social Justice Initiative will be brought into the project as-needed to answer questions and provide support. This is a new component to the watershed study projects and we understand there will be numerous questions to answer along the way.

5. There is currently only one NRT in the study area. Does the City anticipate that additional NRT's will be formed during this study?

   The City does not anticipate that additional NRT's will be formed during this study.

Starkweather Creek/Olbrich Gardens and Upper Badger Mill Creek Watershed Study RFP Questions
City of Madison, WI
Questions received by: 4:00 pm January 6th, 2021
Answers posted by: 4:00 pm January 8th, 2021

6. Does the City anticipate the PIMs and focus groups will be in-person or virtual?

   Are public meetings anticipated to be traditional in-person meetings or virtual meetings? Can you please clarify for both focus group and PIMs?

   The current thinking is that the initial PIMs and Focus Groups (through the Fall of 2021) will be virtual and the remaining will be in-person. But, we understand with the ever-changing pandemic situation, this could change. This is why we have asked for both virtual and in-person meeting costs.

7. Can you confirm that the consultant should include the approach and scope for detailed modeling of areas of concern (Task 3.3) in the proposal, or is that to be developed as part of the scope of work?

   The consultant should include the approach and scope for detailed modeling of areas of concern (Task 3.3) in the proposal. Because it will vary by Consultant, please identify this cost so that Engineering can understand the varying level of effort from each proposing team.

8. Does the City want detailed analyses in all areas on Exhibit 1b noted as having existing flooding issues or only the locations that specifically request detailed analyses (6, 7, 9, 19 and 32)?

   The purpose of Exhibit 1 is to provide the Consultant with additional information about the watershed study area and identify locations where the City is aware of reoccurring flooding.

   For purposes of the RFP, detailed analysis means areas where the subcatchments may be more refined and storm sewer sizes less than 18-inches will likely be needed to understand the flow patterns in the area.

   Solutions may be requested for these areas, depending upon the outcome of the Existing Conditions modeling. Items 4, 5, 10, 11, 12, 14, 15, 16, 17, 20, 21, 22, 24, 25, 26, 27, and 28 are meant as informational, however, these items may also lend themselves to adding additional detail to the model beyond the 18-inch storm sewer size.

   Note in the proposal which areas detailed analysis is proposed for and which areas it is not, along with the cost.

9. Does the City want detailed analysis in all the future transportation improvement project areas shown on Exhibit 1b, or just locations 19 and 32? Location 32 does not appear to be included on Exhibit 1b.

   Item 32 is a repeat of Item 19 and should be disregarded. The storm sewer/conveyance system in the future transportation improvement projects areas will be sized based on this computer modeling. Detailed analysis is expected for all streets identified on Exhibit 1b.

Starkweather Creek/Olbrich Gardens and Upper Badger Mill Creek Watershed Study RFP Questions
City of Madison, WI
Questions received by: 4:00 pm January 6th, 2021
Answers posted by: 4:00 pm January 8th, 2021

10. The modeling guidance states that the 2D model grid shall cover the entire study area. Does this mean the City wants a 2D model of overland flow for the entire Starkweather Creek and Olbrich Gardens watershed?

    Yes. Where there is overland flow, the City expects that the overland flow will be routed via 2D in either XP-SWMM or PC-SWMM.

    The output of these computer models is used to create inundation mapping. If the Consultant can propose an approach that can create the inundation mapping depths and extents for all storm events, without using the 2D module, please explain that approach in the proposal.

11. Should the consultant assume a particular number of PFCI solutions for which to develop concept designs and cost estimates to develop the proposal budget?

    Yes. The City understands the Starkweather Creek/Olbrich Gardens study area is very large, at least three times larger than any other current study area in the City. Indicate the maximum number of PFCI solutions in the proposal, along with the cost associated with that.

12. Does the City have any intent of updating the Flood Insurance Study with the new hydrology that would be developed as part of this project (recognizing that would be a future, separate project)?

    The City does not intend to update the Flood Insurance Study with the new hydrology that would be developed as part of this project at this time.

    It is highly possible it could happen someday, but, there are no plans identified currently.

    If effort to update the Flood Insurance Study is proposed, include it as a separate item in the proposal.

13. The scope in the RFP says the Tasks for 6.1 Volume Control and 6.3 Volume Control and Peak Flow Control Combined are To Be Determined. Should we assume zero level of effort and cost for those subtasks for now, and assume those will be added later via amendment once a scope is finalized? Or should we make some sort of estimate / scope assumption for those subtasks based on available information?

    Assume zero level of effort and cost. This effort will be added via an amendment once we have determined the ultimate process/approach we are using for this.

14. Is there a need to conduct detailed modeling and inundation mapping on Dane County Regional Airport property? Or is it acceptable to somewhat simplify the modeling on the airport property if feasible, with the goal of determining how airport flows and flood elevations affect both upstream and downstream areas of more detailed study? (major channels and surface flow paths through the airport would still be modeled)

    There is no need to conduct detailed modeling and inundation mapping on Dane County Regional Airport property. The City's understanding is that detailed modeling for the airport is being maintained by the airport consultant. It is acceptable to simplify the modeling on the airport property, with the goal of

determining how airport flows and flood elevations affect both upstream and downstream areas of more detailed study. Major channels and surface flow paths through the airport should be modeled.

15. If flooding problems on Dane County Regional Airport property are identified, will alternatives and solutions need to be developed for those?

    If flooding problems on the Dane County Regional Airport property are identified, the City will work with Dane County to understand if alternatives and solutions are desired. If they are, an amendment will be issued for the effort.

16. Can modeling for Town of Burke areas be simplified, except more detail is needed to simulate adjacent City of Madison areas? Can we assume that no inundation mapping for Town of Burke areas are required?

    Areas within the Town of Burke that are included in City of Madison Neighborhood Development Plans should be modeled and inundation mapping should be created. The inundation mapping from the watershed studies will be used to inform the development of future neighborhoods. Neighborhood Development Plan Areas can be found here: https://www.cityofmadison.com/dpced/planning/plans/440/

    The City does not have storm infrastructure records for the Town of Burke. Field verification and limited survey will need to be performed in this area to evaluate the Existing Conditions drainage. In the cost proposal, note the amount included for survey in Town of Burke.

Upper Badger Mill Creek Watershed Study

1. Confirm that the modeling software will be PCSWMM; use of XPSWMM is not acceptable.

    PC-SWMM is the modeling software that shall be used for Upper Badger Mill Creek. Both Lower Badger Mill Creek and East Badger Mill Creek are in PC-SWMM.

2. It appears based on the scope that detailed calibration of this model is not required and there is no data available for calibration, is that correct? Were any of the recent City of Madison / USGS water level and flow gages located within the watershed (or East Branch Badger Mill Creek; I am familiar with the Greentree / McKenna gages.)

    No calibration is required for Upper Badger Mill Creek. Model verification, in the form of reviewing anecdotal flood information to modeling results, is expected. The screen capture below shows the City gages in Upper Badger Mill Creek and East Badger Mill Creek.

Starkweather Creek/Olbrich Gardens and Upper Badger Mill Creek Watershed Study RFP Questions
City of Madison, WI

Questions received by: 4:00 pm January 6th, 2021

Answers posted by: 4:00 pm January 8th, 2021