



Welcome to Ecology's Water Quality Funding Recipient Training

Today's Session will be Recorded.

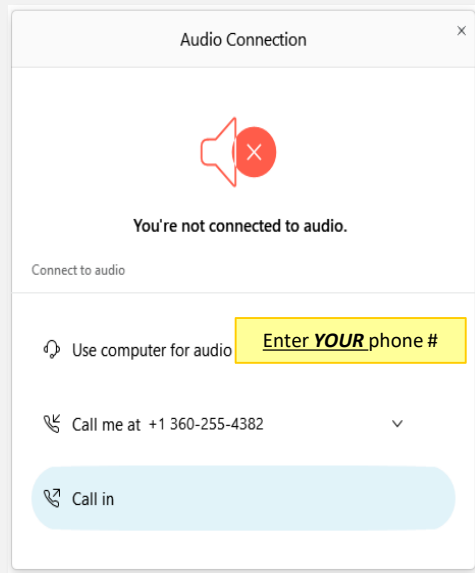
Technical Problems?

Can't hear the Panelists?

Try an alternate audio connection.

1) Move your cursor to the bottom of the Web-Ex and select the  icon. If you don't see the phone icon, click the  to reveal additional icons.

2) Next, choose an audio option

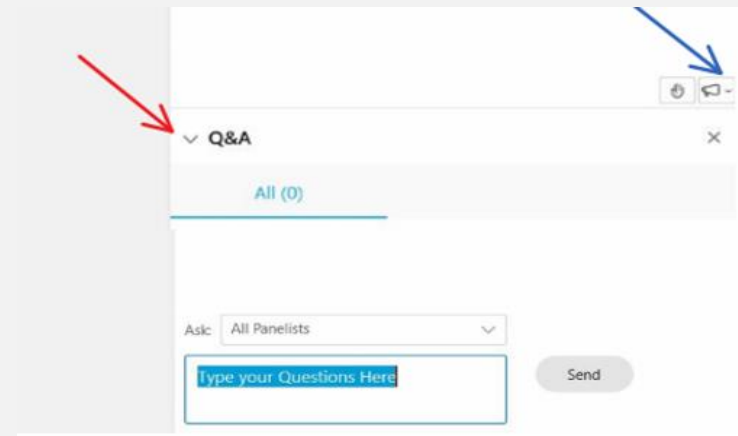


- A. Use computer for audio
- B. Call me at (enter your phone number)
 - WebEx calls you. You listen through your phone
- C. Call in using your phone. There may be several different numbers that you can try.

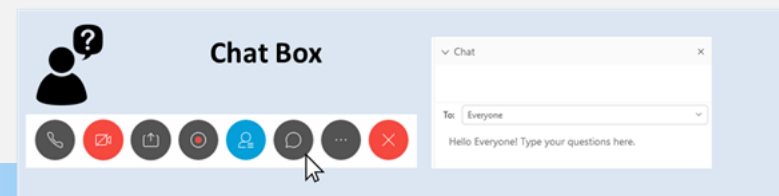
Questions for the Panelists?

To ask a question about the presentation, use the [Q&A Box](#) located in the lower right portion of your Web-Ex window.

Use the  to provide feedback to the panelists.



For technical difficulties, use the Chat Box.



The Stormwater Financial Assistance Program (SFAP) is designed to fund stormwater projects and activities that have proven effective at reducing impacts from existing infrastructure and development and enhance existing stormwater programs.



SFAP Grant Projects



Shared Goals:

Improved water quality

Wise and productive use of state and local resources

Ecology Team

Project Manager
(regional office)

Financial Manager
(headquarters)

Engineer
(headquarters)



Municipal/County Team

Authorized Signatory

Project Manager/
Engineer

Financial Officer

Contractors

When to contact your Project Manager:

They are your main point of contact for questions.

Reach out when you:

- Are having trouble submitting a PRPR
- Need to change or add roles within EAGL
- Have questions about payment status or eligibility of certain costs
- Are wondering about your Cultural Resource Review status
- Have questions on your Design Deliverables and their review
- Know that your project is going to exceed task budgets or timelines
- Need to make design changes in project that may impact eligibility or water quality benefits
- Have ideas for retrofit facilities or programs that you would like to submit in future applications





Project Managers are here to help: Reach out

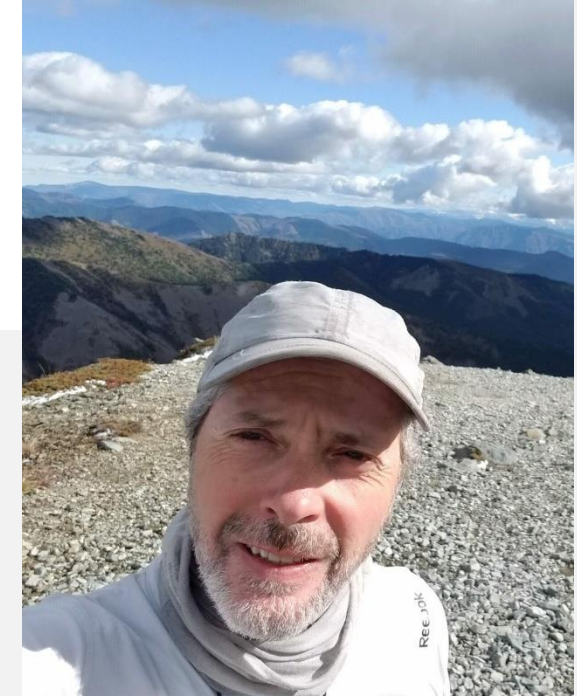
Annie Simpson, Eastern
Regional Office



Vacant Position,
Southwest Regional Office



Seth Bengé, Central
Regional Office



David Mora, Southwest
Regional Office -Vancouver

Melisa Snoeberger,
Northwest Regional
Office



Amy Waterman,
Northwest Regional
Office



Sylvia Graham,
Northwest Regional
Office - Bellingham



Heather Bearnese-Loza,
Northwest Regional
Office

Things To Consider For A Successful Schedule And Progress Report/Payment Request

Department of Ecology-WQ Program

Seth Bengge-Central Region

Melisa Snoeberger-Northwest Region

Annie Simpson-Eastern Region

Things To Consider For A Successful Schedule



- Time it takes to complete the work for the project
- Time for preparation of deliverables
- Time for Ecology review of deliverables and potential back and forth correspondence in regards to that review
- Project Closeout tasks



Items To Include In Your Schedule With Ecology Review Times

- **PRPRs-30 day review period**
- **SEPA-Start early and expect an additional 7 days for SFAP Review**
- **Cultural Resources-**
 - **Cultural Resources Review-estimated between 45-65 days for review and final determination depending on the project**
 - **Survey/Monitor required-could require an additional 15-25 days for review of the survey and/or monitoring plan**
- **Design Report-45 calendar days**
- **90% Design Package-45 calendar days**
- **Final Bid Package-15 calendar days**
- **Change Orders-10 calendar days**
- **Closeout task-Should be started about 4 months prior to the expiration date. i.e. GIS file, 2 page Outcomes Summary, Recipient Close Out Report, Final PRPR, Ecology Close Out Report**



Change Orders

- All change orders must be reviewed and accepted by Ecology
- Allow 10 calendar days for Ecology review
- Change orders that impact stormwater facilities - submit prior to execution
- All other change orders - submit within 30 days after execution



Closeout

Tasks:

- **Confirm all agreement deliverables are in EAGL**
- **Prepare your final PRPR for ECY review**
- **Send draft forms to ECY PM for review**
 - **Recipient Close Out Form (RCOR) form in EAGL. Ecology provides a template. Add your project details and send draft to ECY PM for review.**
 - **Stormwater 2 Page Summary form. Ecology provides a template. Send draft to ECY PM for review.**



Closeout

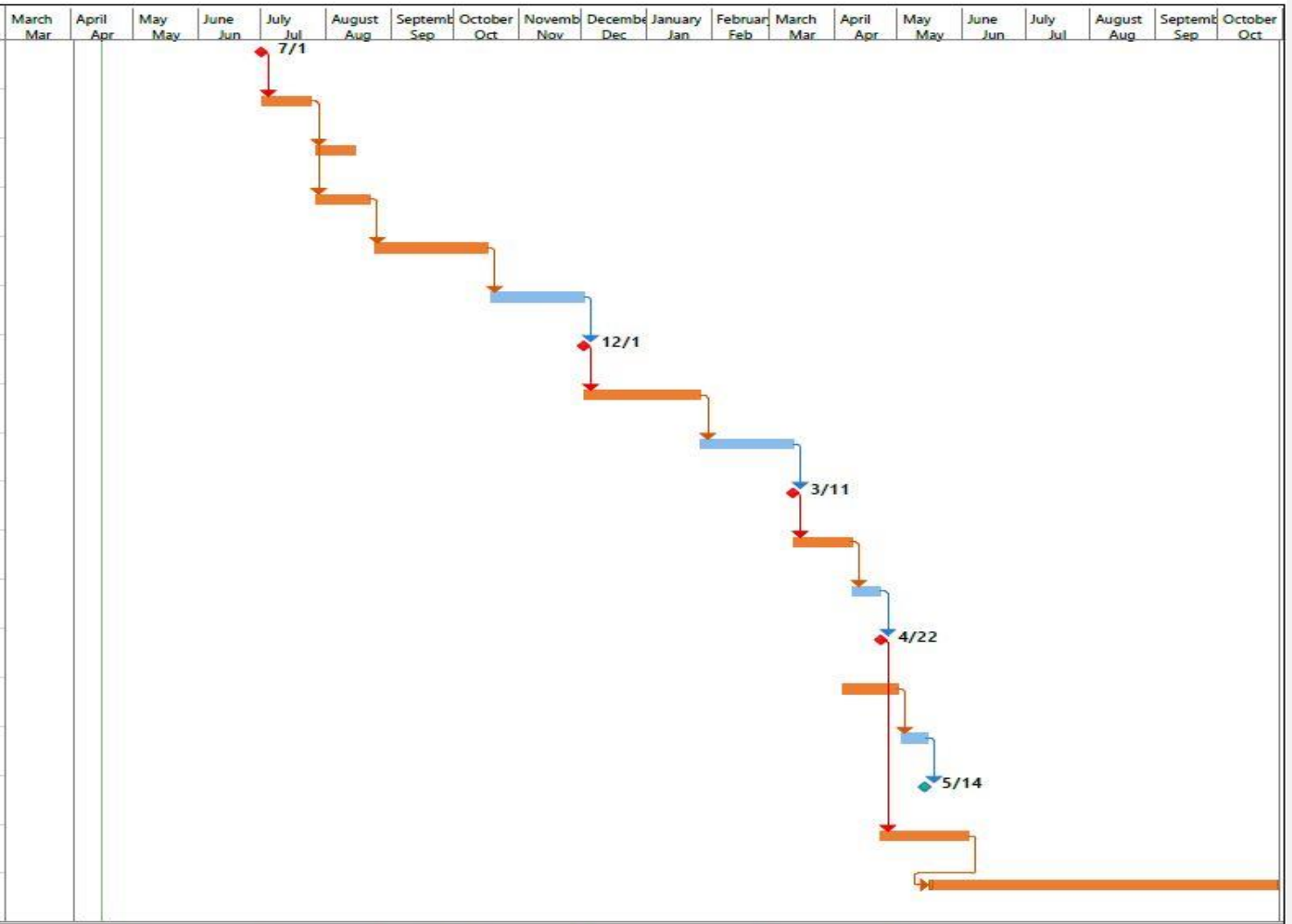
After ECY accepts your draft RCOR and draft 2-page summary:

- **Initiate a Recipient Close Out form in EAGL. Paste the information from the template into the form in EAGL.**
- **Upload a copy of your completed 2-page summary at the bottom of the RCOR**
- **Change that status to submit the RCOR**



Sample Schedule

| ID | Task Mode | Task Name | Duration | Start | Finish | Predecessors | March Mar | April Apr | May May | June Jun | July Jul | August Aug | Septemb Sep | October Oct | Novemb Nov | Decembe Dec | January Jan | February Feb | March Mar | April Apr | May May | June Jun | July Jul | August Aug | Septemb Sep | October Oct |
|----|-----------|-------------------------------|----------|--------------|--------------|--------------|-----------|-----------|---------|----------|----------|------------|-------------|-------------|------------|-------------|-------------|--------------|-----------|-----------|---------|----------|----------|------------|-------------|-------------|
| 1 | | Agreement signed | 0 days | Wed 7/1/20 | Wed 7/1/20 | | | | | | | | | | | | | | | | | | | | | |
| 2 | | Cultural Resources | 23 days | Wed 7/1/20 | Fri 7/24/20 | 1 | | | | | | | | | | | | | | | | | | | | |
| 3 | | Surveying | 15 days | Mon 7/27/20 | Fri 8/14/20 | 2 | | | | | | | | | | | | | | | | | | | | |
| 4 | | Site Geotech | 20 days | Mon 7/27/20 | Fri 8/21/20 | 2 | | | | | | | | | | | | | | | | | | | | |
| 5 | | Develop Design Repo | 40 days | Mon 8/24/20 | Fri 10/16/20 | 4 | | | | | | | | | | | | | | | | | | | | |
| 6 | | Ecology Review | 32 days | Mon 10/19/20 | Tue 12/1/20 | 5 | | | | | | | | | | | | | | | | | | | | |
| 7 | | Design Report Accepted by ECY | 0 days | Tue 12/1/20 | Tue 12/1/20 | 6 | | | | | | | | | | | | | | | | | | | | |
| 8 | | 90% Design by Recipient | 40 days | Wed 12/2/20 | Tue 1/26/21 | 7 | | | | | | | | | | | | | | | | | | | | |
| 9 | | Ecology Review | 32 days | Wed 1/27/21 | Thu 3/11/21 | 8 | | | | | | | | | | | | | | | | | | | | |
| 10 | | 90% Design Accepted by ECY | 0 days | Thu 3/11/21 | Thu 3/11/21 | 9 | | | | | | | | | | | | | | | | | | | | |
| 11 | | Bid Package by Recipient | 20 days | Fri 3/12/21 | Thu 4/8/21 | 10 | | | | | | | | | | | | | | | | | | | | |
| 12 | | Ecology Review | 10 days | Fri 4/9/21 | Thu 4/22/21 | 11 | | | | | | | | | | | | | | | | | | | | |
| 13 | | Bid Package Accepted by ECY | 0 days | Thu 4/22/21 | Thu 4/22/21 | 12 | | | | | | | | | | | | | | | | | | | | |
| 14 | | Construction QAP | 20 days | Mon 4/5/21 | Fri 4/30/21 | | | | | | | | | | | | | | | | | | | | | |
| 15 | | Ecology Review | 10 days | Mon 5/3/21 | Fri 5/14/21 | 14 | | | | | | | | | | | | | | | | | | | | |
| 16 | | CQAP Accepted by ECO | 0 days | Fri 5/14/21 | Fri 5/14/21 | 15 | | | | | | | | | | | | | | | | | | | | |
| 17 | | Bidding | 30 days | Fri 4/23/21 | Thu 6/3/21 | 13 | | | | | | | | | | | | | | | | | | | | |
| 18 | | Construction | 120 days | Mon 5/17/21 | Fri 10/29/21 | 17 | | | | | | | | | | | | | | | | | | | | |



Project: Facilities Grant Propose
Date: Thu 4/16/20

| | | | | | | | | | |
|-----------|--|--------------------|--|-----------------------|--|--------------------|--|-----------------|--|
| Task | | Project Summary | | Manual Task | | Start-only | | Deadline | |
| Split | | Inactive Task | | Duration-only | | Finish-only | | Progress | |
| Milestone | | Inactive Milestone | | Manual Summary Rollup | | External Tasks | | Manual Progress | |
| Summary | | Inactive Summary | | Manual Summary | | External Milestone | | | |

Tips For Success

- **Have a schedule ready for your first negotiation meeting with Ecology**
- **Keep it updated with any changes**
- **Ensure Ecology has the most current version**
- **Send Change Orders before the changes have been made**
- **Maintain your project Status Updates on your Quarterly Progress Reports/Payment Requests**



Submitting Successful Progress Report/Payment Requests (PRPR)



General Information

- **PRPRs are due monthly or quarterly (no more than 30 days after end of each quarter)**
 - **April 30, July 30, October 30, January 30.**
- **Agreement needs to be in active status**
- **First PRPR should cover back to the effective date of the agreement**
- **Previous PRPRs must be in active status before submitting a new PRPR**



Common Mistakes

- **Not Enough Detail in Progress Reports**
- **Misplaced Task Expenses**
- **Not Enough Detail in Timesheets or Invoices**
- **Technical EAGL Issues-Reach out to your Ecology Project Manager**
- **Accidentally initiating an amendment instead of submitting or re-submitting the PRPR**
- **Where to look for modifications information**



PRPR Details

- We generally need more than one sentence per task, unless very little progress has been made.
- Dates are very helpful—consider making mini milestones for progress reports. This is very helpful for auditing purposes.
- Instead of waiting until when the PRPR is due and documenting it all then, consider tracking project mini milestones on a regular basis (weekly or as needed).
- Make sure the expenses clearly define the work done and that they line up with the work described in the progress report



PRPR Details

Progress Report that Lacks Detail

*** By Task Progress**

| Task Title | Percent Complete | Summary of accomplishments for this reporting period |
|--|------------------|---|
| Project Administration/Management | 75 % | Continuing routine project admin/management 43 of 2000 |
| Design Plans and Specs, Environmental Review | 100 % | Final Design Approved 21 of 2000 |
| Construction Management | 75 % | Construction is underway and on schedule 40 of 2000 |
| Construction | 75 % | Construction is underway and on schedule 40 of 2000 |

Description and reasons for delay

N/A

PRPR Details

Progress Report That Shows Better Detail

* By Task Progress

| Task Title | Percent Complete | Summary of accomplishments for this reporting period |
|--|------------------|---|
| Project Administration/Management | 25 % | <p>Staff have conducted most of the efforts necessary to secure the grant contract, as well as secure and upload the required documentation for grant compliance. An exception is timely submission of a previous progress report for the period ending on 12/31/2016. Remaining requirements are some uploads for remaining Ecology tasks; additional</p> <p>431 of 2000</p> |
| Design Plans and Specs, Environmental Review | 100 % | <p>Staff have completed and uploaded the required task deliverables, namely submission of the: project SEPA; DAHP EZ-1 Form; Inadvertent discovery Plan; Design report; 90 percent design package; required permit and environmental review documents; responses to Ecology comments; and the Final Bid package.</p> <p>303 of 2000</p> |
| Construction Management | 0 % | <p>As the project bid is scheduled for April 2017, after conclusion of this reporting period (which ended 3/31), no items have been completed under this task.</p> <p>155 of 2000</p> |
| Construction | 0 % | <p>As the project bid is scheduled for April 2017, after conclusion of this reporting period (which ended 3/31), no items have been completed under this task.</p> <p>155 of 2000</p> |

Use the boxes near the bottom of the progress report to add necessary details

Description and reasons for delay

The project is within the timeframe identified in the grant agreement WQC-2018-UniGap-00048. The end of the grant agreement is June 30, 2021.

144 of 2000

Description and reasons for cost overruns

There have been no changes in project cost during the most recent period.

73 of 2000



General Comment

The two page out come summary and recipient closeout report have been attached for reference.

95 of 2000

PRPR Menu

Forms

| Status | Page Name | Note | Created By | Last Modified By |
|---|--|------|------------|------------------|
| | Payment Request/Progress Report Guidance | | | |
|  | Federal Projects Only: Suspension and Debarment Instructions | | | |
|  | Form D: Contractor Participation Report Instructions | | | |
| | Payment Request / Progress Report Forms | | | |
|  | Payment Request | | | |
|  | Payment History | | | |
|  | Form D: Contractor Participation Report | | | |
|  | Progress Report and Mapping Information | | | |
|  | Payment Request Progress Report Modification Comments | | | |



Misplaced Task Expenses

- **It is common for non-administrative tasks to be placed in task one. Task one needs to be limited to tasks in which the recipient is performing administrative tasks related to tracking for Ecology.**
- **Recipients should pay attention to where deliverables are documented in the grant agreement and expense deliverables to the corresponding tasks.**
- **Financial Advisors can work with recipients to adjust budgets to a limited degree.**



Payment Request Details

- Use the Item Description field to describe your expenses

Examples:

- Consultant invoice for geotechnical work
- Staff time working on SEPA



Expenditures

Page 1 of 1

| | Item # | Detail # | Funding Distribution | Task Title | Item Category | Item Description | Payee |
|--------------------------|--------|----------|--|--|---------------------|--------------------------|-----------------------|
| <input type="checkbox"/> | 1 | 65694 | Stormwater Financial Assistance Program [EG160143] ▼ | Construction ▼ | Contracts ▼ | Construction Invoice 1 & | Welwest Construction, |
| <input type="checkbox"/> | 2 | 65697 | Stormwater Financial Assistance Program [EG160143] ▼ | Design Plans and Specs, Environmental Review ▼ | Contracts ▼ | Design Invoices 18-22 | Gray & Osborne, Inc |
| <input type="checkbox"/> | 3 | 65805 | Stormwater Financial Assistance Program [EG160143] ▼ | Project Administration/Management ▼ | Salaries/Benefits ▼ | Timecard1_NSanders | City of Snoqualmie |









Supporting Documentation

- **Any documentation is always helpful to include in the payment request.**
- **Documentation helps auditors easily see that payments are qualified and correspond to tasks performed.**
- **When it comes to invoices or expense reports, more detail is better. Timecards should include names of staff being paid.**
- **Consider documenting exactly which activities are covered in invoices and expense reports.**



PRPR With Modifications

Forms

| Status | Page Name | Note | Created By | Last Modified By |
|---|--|------|------------|------------------|
| | Payment Request/Progress Report Guidance | | | |
|  | Federal Projects Only: Suspension and Debarment Instructions | | | |
|  | Form D: Contractor Participation Report Instructions | | | |
| | Payment Request / Progress Report Forms | | | |
|  | Payment Request | | | |
|  | Payment History | | | |
|  | Form D: Contractor Participation Report | | | |
|  | Progress Report and Mapping Information | | | |
|  | Payment Request Progress Report Modification Comments | | | |



Modifications Required Submittal

- Be sure you are in the **PRPR Menu**, not the Application Menu!
- **PRPR Menu then View Status Options**
 - Click “Apply Status” under PR/PR Submitted.

[Back](#)

Payment Request Menu - Status Options


Select a button below to execute the appropriate status push.

Document Information: [PRPR-AprJun2019-EcyWQ-07411](#)
Parent Information: [WQC-2021-EcyWQ-00040](#)

[Details](#)

Change the Status


Select the **View Status Options** button below to perform actions such as


[VIEW STATUS OPTIONS](#) 

Possible Statuses

Select a status below to change the status of this Payment Request/

Note to Recipients: If your agreement was recently signed, you must wait before you may submit the first payment. Until this time, only the Payment Do not select this status if you intend to submit this payment after the Agreement Active status, the Payment Request/Progress Report Submitted

PAYMENT REQUEST/PROGRESS REPORT SUBMITTED 
[APPLY STATUS](#)

PAYMENT REQUEST/PROGRESS REPORT CANCELLED 
[APPLY STATUS](#)



Thank you! Questions?



Tips for Starting Cultural Resources Review

Executive Order 21-02 (*formerly 05-05*)
or Section 106

Why we protect cultural resources

- Special cultural, historical, and spiritual significance
- Better understanding and partnerships between cultures
- Educational value
- Once damaged, they can't be restored



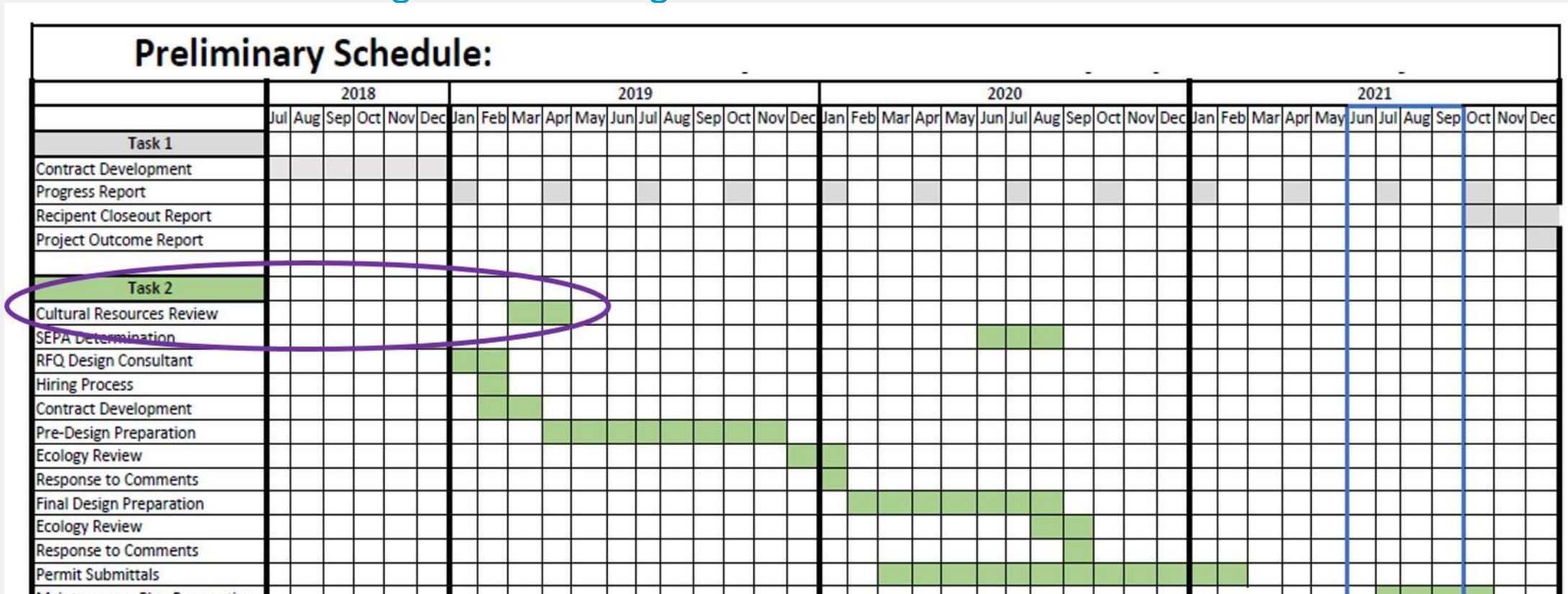
Common Mistakes

- Not enough time in the schedule
- Lacking detail in the Cultural Resources Review form
 - Project description
 - Maps

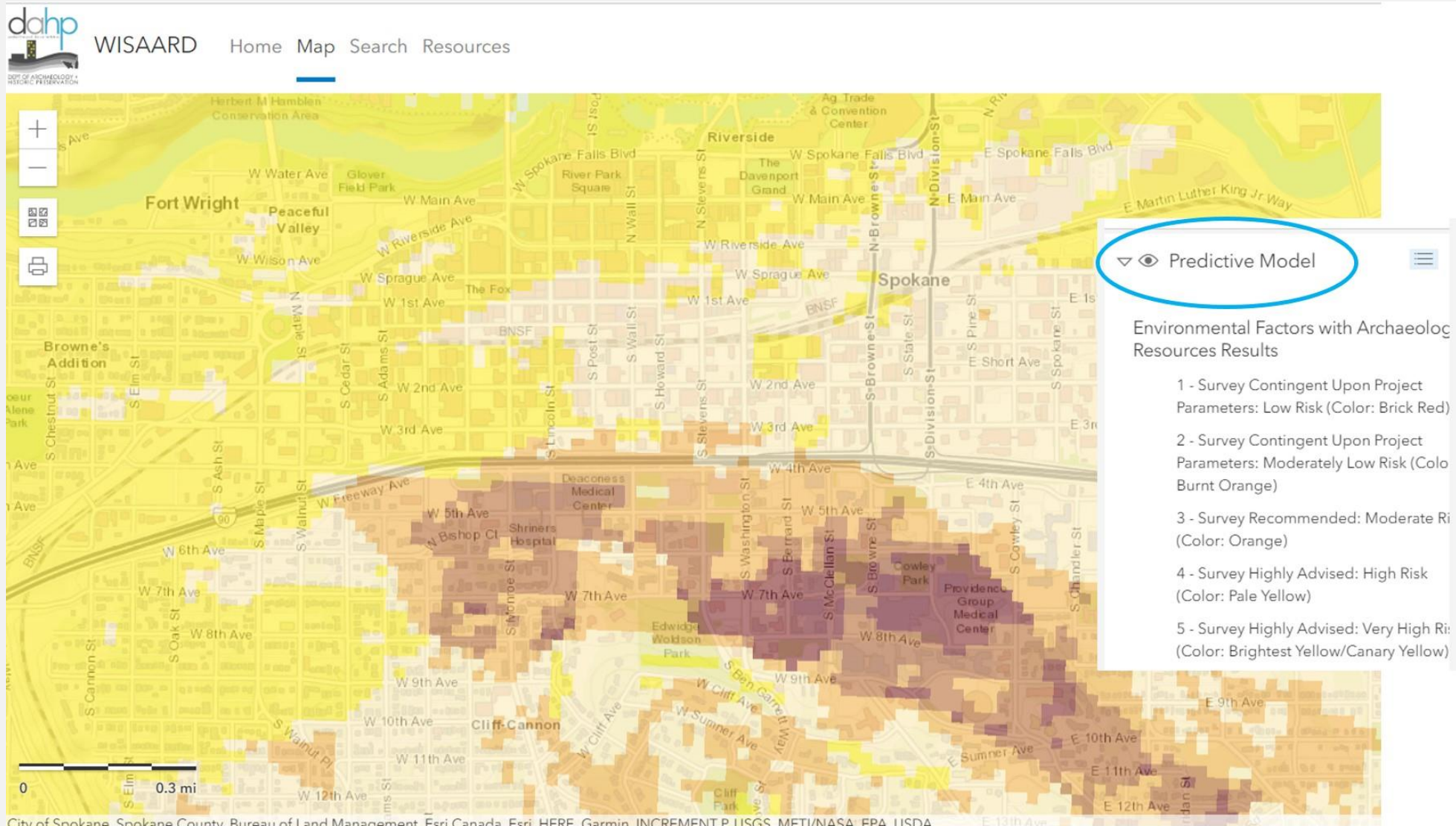


Start Early

- Plan at least 60 days for review and consultation
- A survey or monitor may be required – adding more time
- Review must be complete before any work that may impact the site
 - This includes geotech investigations



Check WISAARD for risk



Cultural Resources Review Form

Description of activities

- Indirect and direct effects
- Physical, visual, auditory, and vibration impacts
- Below and above ground disturbance
- Length, width and depth of ground disturbance
 - For both geotech and new facilities
- Staging areas

50 YEARS OF ECOLOGY

**WASHINGTON DEPARTMENT OF ECOLOGY
EXECUTIVE ORDER 05-05 / SECTION 106
CULTURAL RESOURCES REVIEW FORM**

This form may only initiate consultation. For some projects, Ecology, affected tribes, DAHP, or other agencies may require additional information to complete the project review such as: plans, specifications, photographs, or other information. Turn completed form in to Ecology Project, Site Manager or Cultural Resource Contact. **Do not include any confidential information, such as coordinates of known archaeological sites.**

PROJECT SPONSOR / PRIMARY CONTACT INFORMATION

PROJECT SPONSOR ORGANIZATION: _____

ADDRESS: _____

CITY, STATE: _____

ZIP, COUNTY: _____

PRIMARY CONTACT NAME: _____

PHONE #: (____) ____-____

EMAIL: _____

PROJECT SITE INFORMATION

PROJECT/SITE NAME: _____

PROJECT/SITE MANAGER NAME (if different than above): _____

PROJECT MGR PHONE #: (____) ____-____

PROJECT MGR EMAIL: _____

PROJECT ID NUMBER (Near Term Action #, for example): _____

LANDOWNER NAME: _____

Is there a signed landowner agreement? Yes No
It is required to obtain one prior to review. N / A

Will the Project require a federal permit or other federal / state agency approval?
 Yes No Unsure
If you select yes, please talk to your Ecology Project Manager prior to further completing this form.

Does any part of the project area and / or Area of Potential Effect (APE) fall into the following ownership categories (check all that apply)? State Federal Tribal Municipal Private
 Other: _____

ECOLOGY GRANT, LOAN OR CONTRACT INFORMATION

ECY PROJECT TITLE: _____

ECY GRANT, LOAN, OR CONTRACT NUMBER: _____

ECY GRANT, LOAN, OR CONTRACT TYPE (Centennial, Floodplains by Design, Equipment Cache, or IAA, etc.): _____

Do you have additional state or federal funding for your project? Check all that apply: State Federal
If you select Federal, please talk to your Ecology Project Manager prior to further completing this form.
If applicable, what is the name of the other funding program(s): _____

ECOLOGY INFORMATION (to be completed by the Ecology Project/Site Manager)

ECY PROJECT/SITE MANAGER: Sylvia Graham

ECY PROJECT MGR PHONE #: (360) 255-4393

ECY PROJECT MGR EMAIL: sygr461@ecy.wa.gov

ECY FINANCIAL MANAGER: _____

DAHP PROJECT NUMBER* (If applicable): _____
*Assigned through the use of the Washington Information System for Architectural & Archaeological Records Data (WISAARD)

ECY CR CONTACT: _____

ECY CR CONTACT PHONE #: (____) ____-____

ECY CR CONTACT EMAIL: _____

ECY PROGRAM (WQ, WR, SEA, OCR, TCP, etc.): _____

To request ADA accommodation including materials in a format for the visually impaired, call Ecology at 360-407-8000 or visit <https://ecology.wa.gov/accessibility>. People with impaired hearing may call Washington Relay Service at 711. People with speech disability may call TTY at 877-833-6341.

ECY 070-537 (revised 9/2020)

Example Description

site-specific details

The Area of Potential Effect related to the construction of the SITE 2 project include the following:

- 1) Approximately **5 survey utility locate potholes** within the project limits
- 2) Potential **shallow pit testing of 10 ft maximum depth** for soil characterization
- 3) Demolition and **removal of approximately 1,500 SF of asphalt** roadway for pipe trenching and treatment facility installation along Interurban Ave S
- 4) Installation of treatment facility and approximately **125 LF of stormwater pipe, 8 ft max depth**
- 5) Potentially second treatment near the intersection of S 141st St with approximately **1000 SF of disturbance, 8 ft max depth**, for treatment installation and tie-into existing conveyance system.

Example Description

vegetation

Approximately **122,000 square feet of vegetation** between the edge of pavement and the right-of-way throughout the corridor would be disturbed, primarily along the western side of the roadway during project construction. **Heavy equipment will be used** to remove vegetation, which includes **mature evergreen and deciduous trees, native shrubs and ground covers, ornamental landscaping** and invasive species such as Himalayan blackberry and morning glory.

Depth of disturbance will not exceed 2 feet.

Example Description

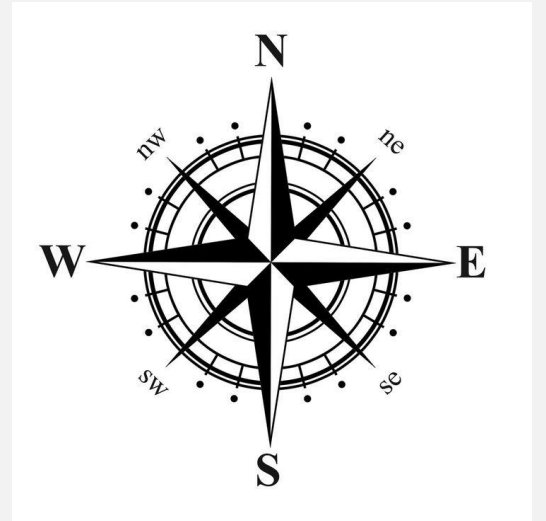
noise, vibration

Minor noise from vehicular traffic along area roadways are the only noise sources in the area. There are no existing sources of noise in the area that would adversely affect the Project. **Temporary noise impacts would result from equipment operation during construction.** Construction hours and noise levels would comply with the City of Kenmore's noise standards, which limits construction to take place between the hours of 7:00 am and 7:00 pm Monday through Friday, and 9:00 am through 5:00 pm on Saturday. Construction is not permitted on Sundays and holidays. **Vibration will occur as a result of compaction equipment** typically used with roadway construction.

Cultural Resources Review Form

Maps

- Identifying features (roads, water, and trails)
- Project boundary
- Area of Potential Effect (APE)
- Staging areas
- Large and small scale



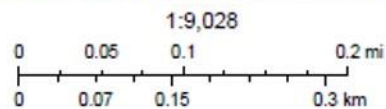
Let's see some good examples...

Example Map



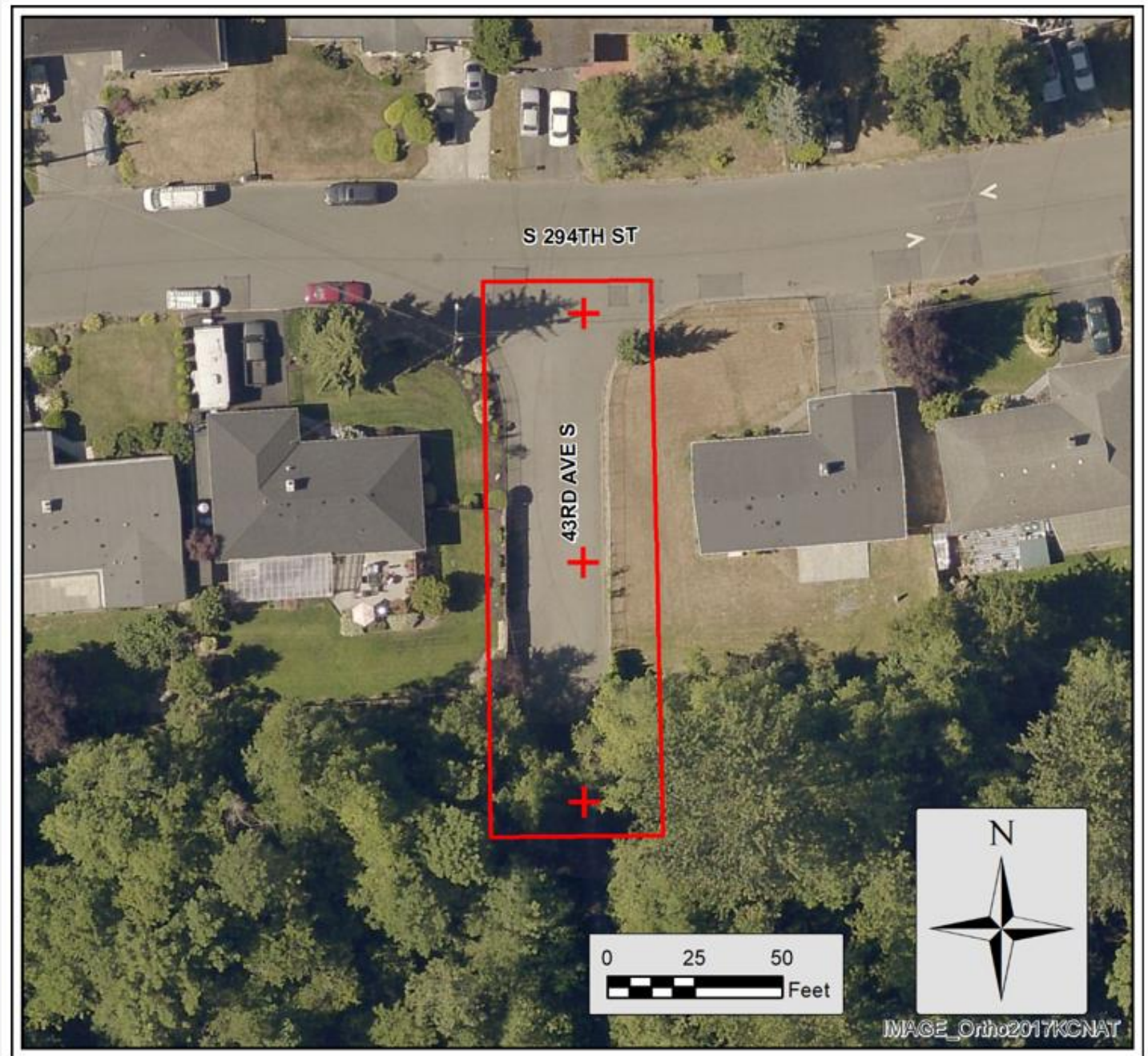
- Site locations and numbers
- Water body name
- Street names
- Scale

1/14/2019, 11:33:53 AM



Example map

- APE boundary
- Bore hole locations
- Street names
- Scale

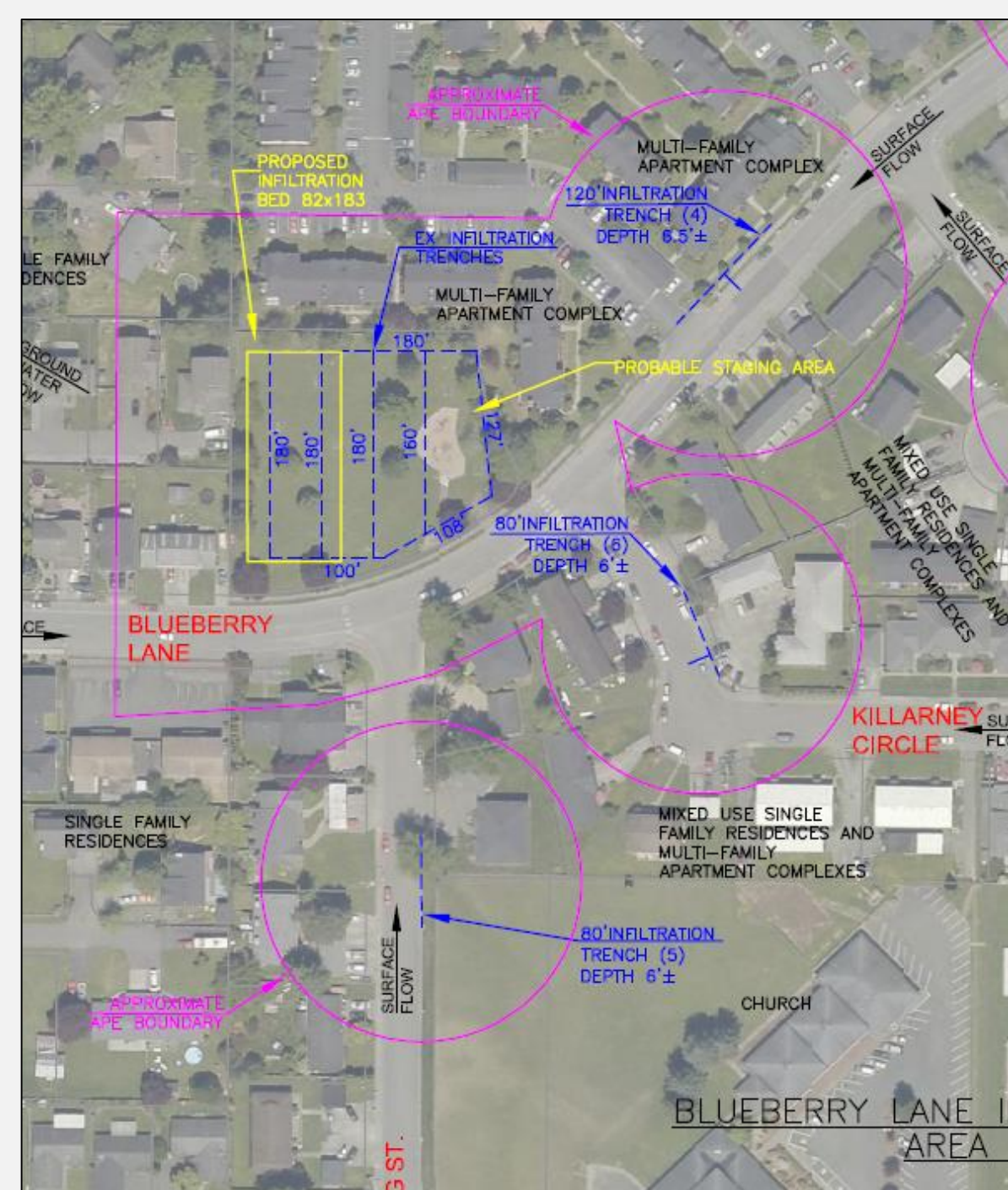


Example map

- APE boundaries
- Facility locations and dimensions
- Staging area
- Street names

Included side notes:

- Existing park infiltration trenches are approximately 10' deep. Widths are unknown, but should have been 4' wide.
- The borings and excavations could extend from 10 to 20 feet deep depending upon the needs of the infiltration design.



Inadvertent Discovery Plan (IDP)

- Use Ecology template
- Email with Cultural Resources Review (CRR) form to your Project Manager



Follow your IDP

- Keep it on site at all times
- Follow step by step instructions on dealing with cultural resources found on site.



Learn More

Training on July 15th, 2021

- Cultural Resources Review: **9:00 - 11:30am**
- If you have a loan: State Environmental Review Process (SERP): **1:00 - 3:30pm**

Resources on Ecology's website

- [Inadvertent Discovery Training](#) video
- [Cultural Resources Review](#) for Water Quality Grants and Loans

Stormwater Planning and EMP Agreements

Department of Ecology- WQ Program

Heather Bearnese-Loza

Amy Waterman

Northwest Region

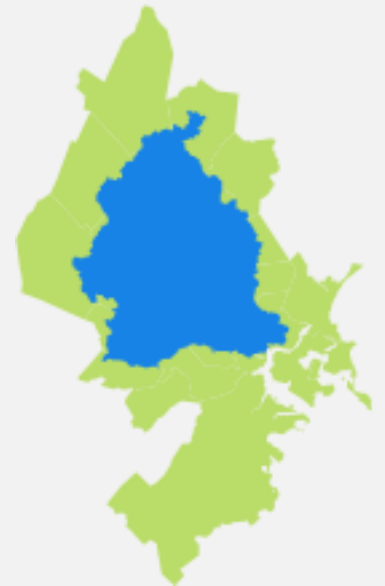
Talk to Ecology Early and Often

- Talk to us early in developing the Agreement; expect some discussion and revisions.
- Time for these discussions will be eligible for reimbursement.
- Negotiate your Agreement with Ecology before finalizing your scope of work. Match your scope of work with grant deliverables.

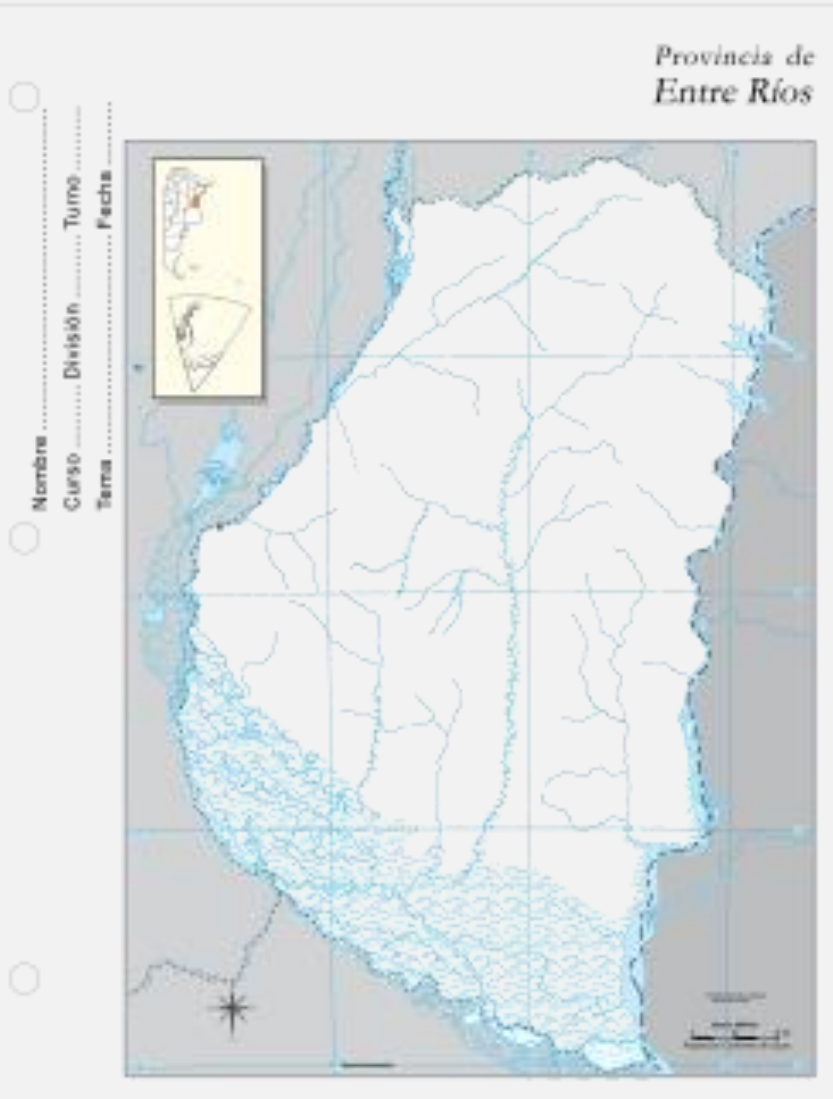
Before Starting Negotiation on Any Plans

Be prepared to answer:

- **Why?** – water quality goal
- **What?** – decided on definitions (watershed/basin, retrofit, enhanced)
- **Where are you?** - gaps in receiving water and infrastructure assessment
- **How?** - are you going to involve stakeholders and determine what's “off the table” based on:
 - types of BMP's,
 - land ownership,
 - policies/politics,
 - other infrastructure projects,
 - maintenance
- **When?** – will you evaluate plan and adaptively manage?



As We Negotiate the Scope of Work



- Consider accurate mapping of stormwater system; not necessarily monitoring and new field data
- Connect dots between STORMWATER water quality problems and actions
- Future stormwater actions will be more likely to get funding when identified in a targeted water quality plan

Stormwater Management Action Plan (SMAP)

Required under the Municipal Stormwater Permits now for Phase II

Major steps:

“Pre-SMAP”

1. Receiving Water Conditions Assessment
2. Receiving Water Prioritization

“SMAP”

3. Stormwater Management ACTION Plan

SMAP AND SFAP

(Stormwater Financial Assistance Program)

| Description | SFAP Grant | CWSRF Loan |
|---|------------|------------|
| BMP's or stormwater facilities for new or redevelopment | NO | YES |
| Land acquisition for stormwater facility siting | YES | YES |
| Restoration of riparian buffers | NO | YES |
| Permanent removal of impervious surfaces | YES* | YES |
| Maintenance | NO | NO |
| Enhanced Maintenance or Source Control | YES | YES |

Enhanced Maintenance Plans

Ecology must have an accepted EMP before planned activities begin

2022 Funding Guidelines:

“To be eligible for funding, sweeping and line-cleaning activities, including the associated equipment and facilities (i.e. high efficiency sweepers and decant facilities) **must have an Ecology-accepted plan...**”

Enhanced Maintenance Plans

The plan must describe actions that will improve water quality.

- Reference: State Fiscal Year 2022 Funding Guidelines
 - Appendix L, pg. 200
- Describe what you are doing and what you will do
 - Pre-Project (Baseline) Program
 - Proposed or Post Project Program
 - **What are the water quality goals?**
- Evaluate both the same way – have a water quality metric

Enhanced Maintenance Plans

The new program must describe data collection and adaptive management

1. Data collection

- What data will you gather in the new program?
- How will this data help you determine if you are meeting your goals?

2. Adaptive management

- It is ok if you don't meet your initial goals!
- What questions will you ask to assess where your program is at?
- How will you change the program based on what you learn?

Actions, Equipment, and Facilities

To be eligible for SFAP grant funding, actions identified in the plan must be:

1. An enhancement of the existing (pre-project) program
2. Cost effective
3. Benefits must extend beyond the length of the funding period

EMPs: Summary

- **Describe your current program and include a metric for water quality benefit**
 - What are the current water quality goals?
 - What are the current program costs?
- **Propose new program and assess for water quality benefit**
 - What are the new water quality goals?
 - Describe what data will be collected and how
 - Develop adaptive management for the new program
- **Determine if actions in the plan are eligible**
 - Show that the proposed actions are an enhancement of the current program
 - Assess the costs of the proposed actions



GIS Deliverables for Stormwater Facility Projects

2021 Recipient Training
David Mora



GIS Data Important and Useful!

Along with GPS mobile mapping devices, it is a great tool for you to demonstrate completion and maintenance of your projects.

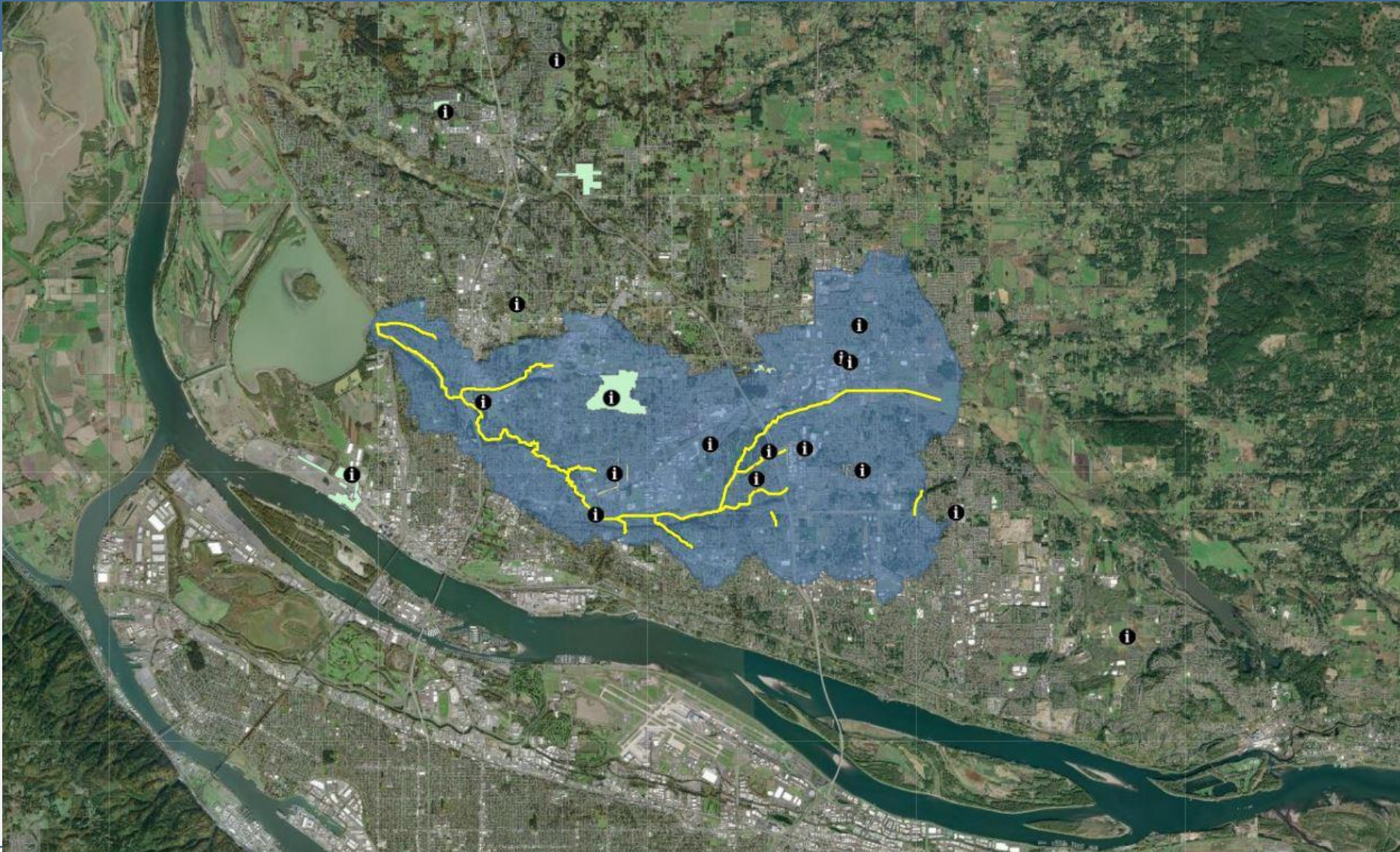
Easily show where you installed your stormwater BMPS

- Contributing basin relative to target waterbody
- Drainages relative to conveyance and BMP locations
- Compared to designs/plans

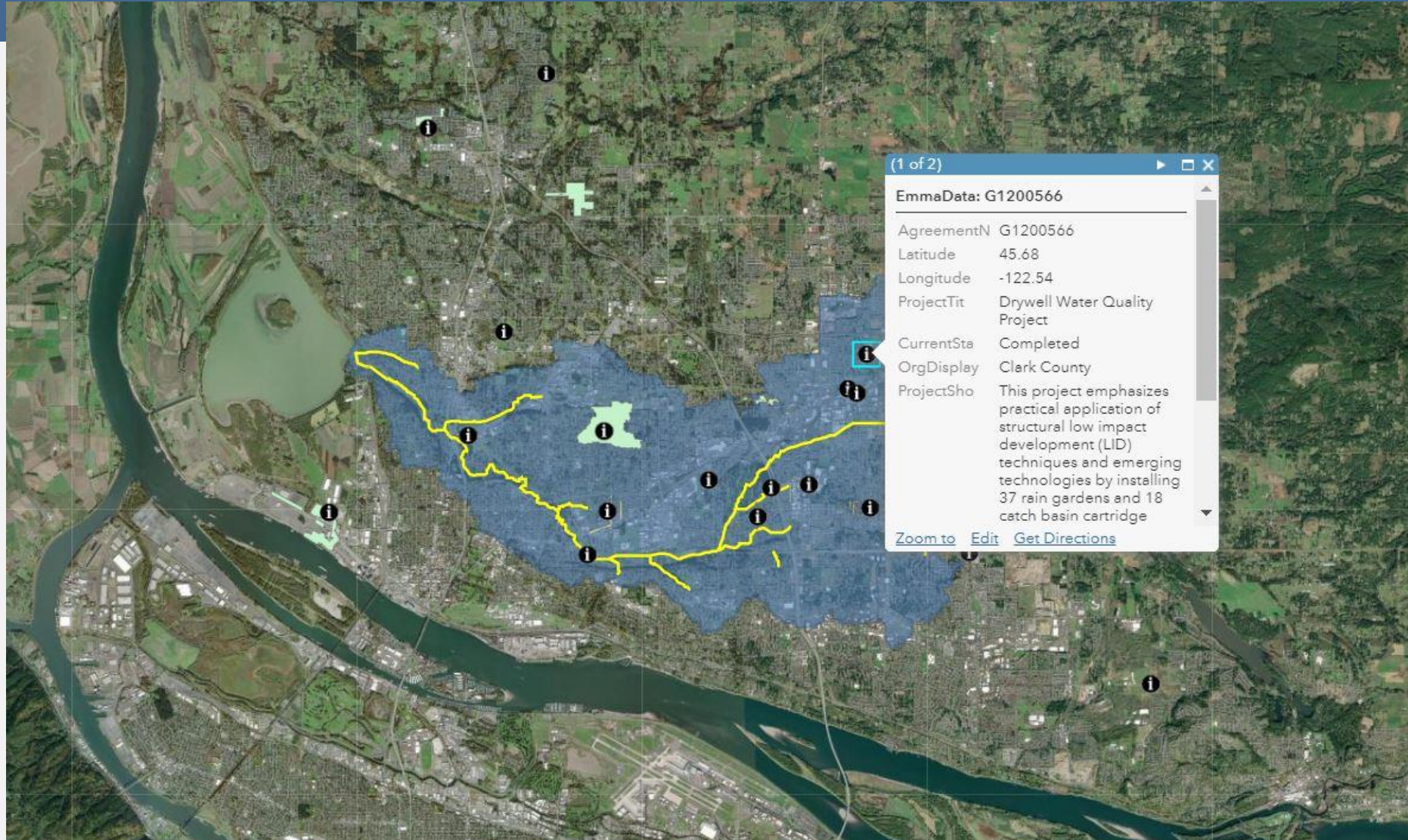
Great tool for us to demonstrate effectiveness of your projects at addressing stormwater water quality needs.



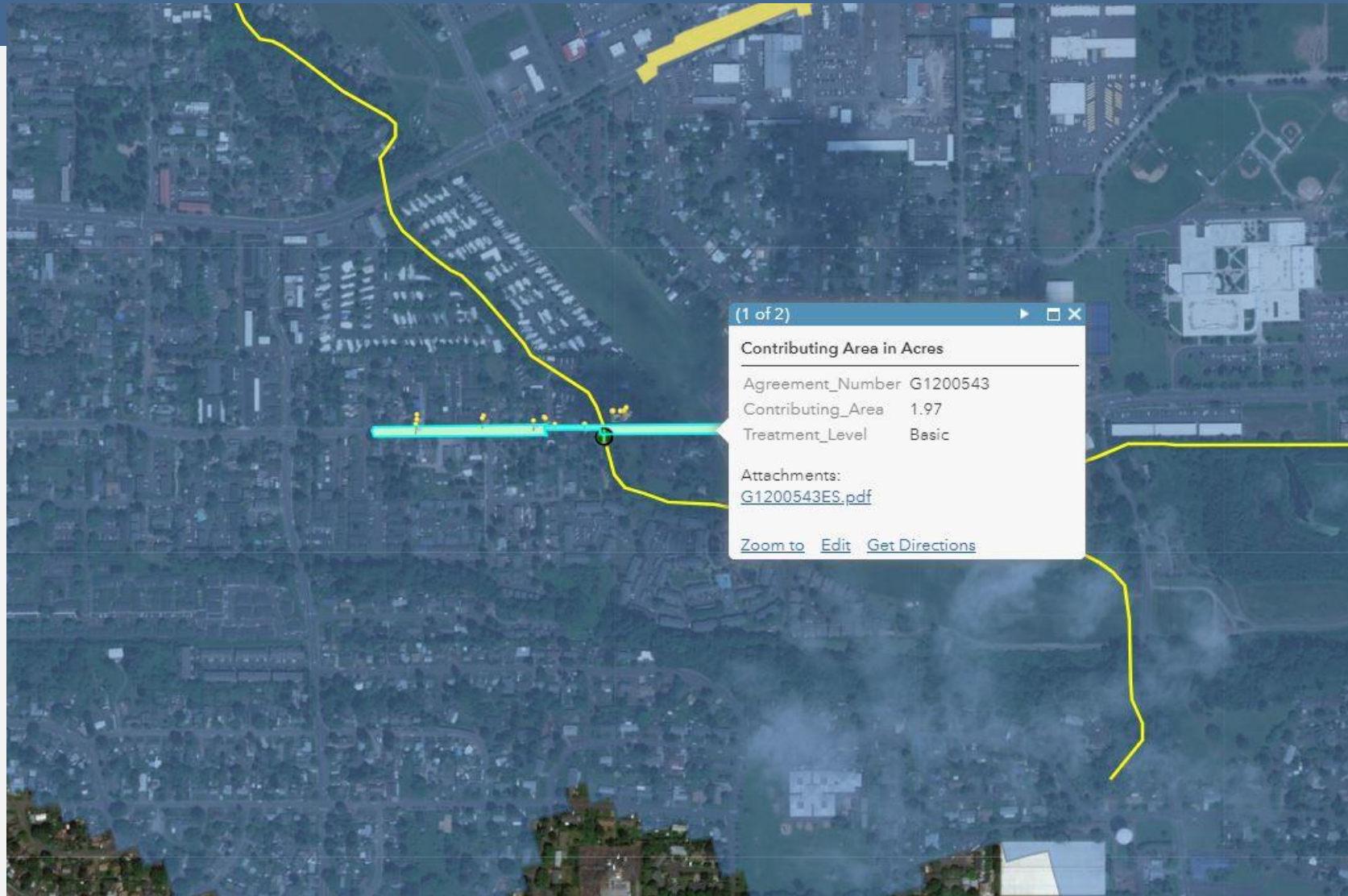
GIS Mapping is Important!



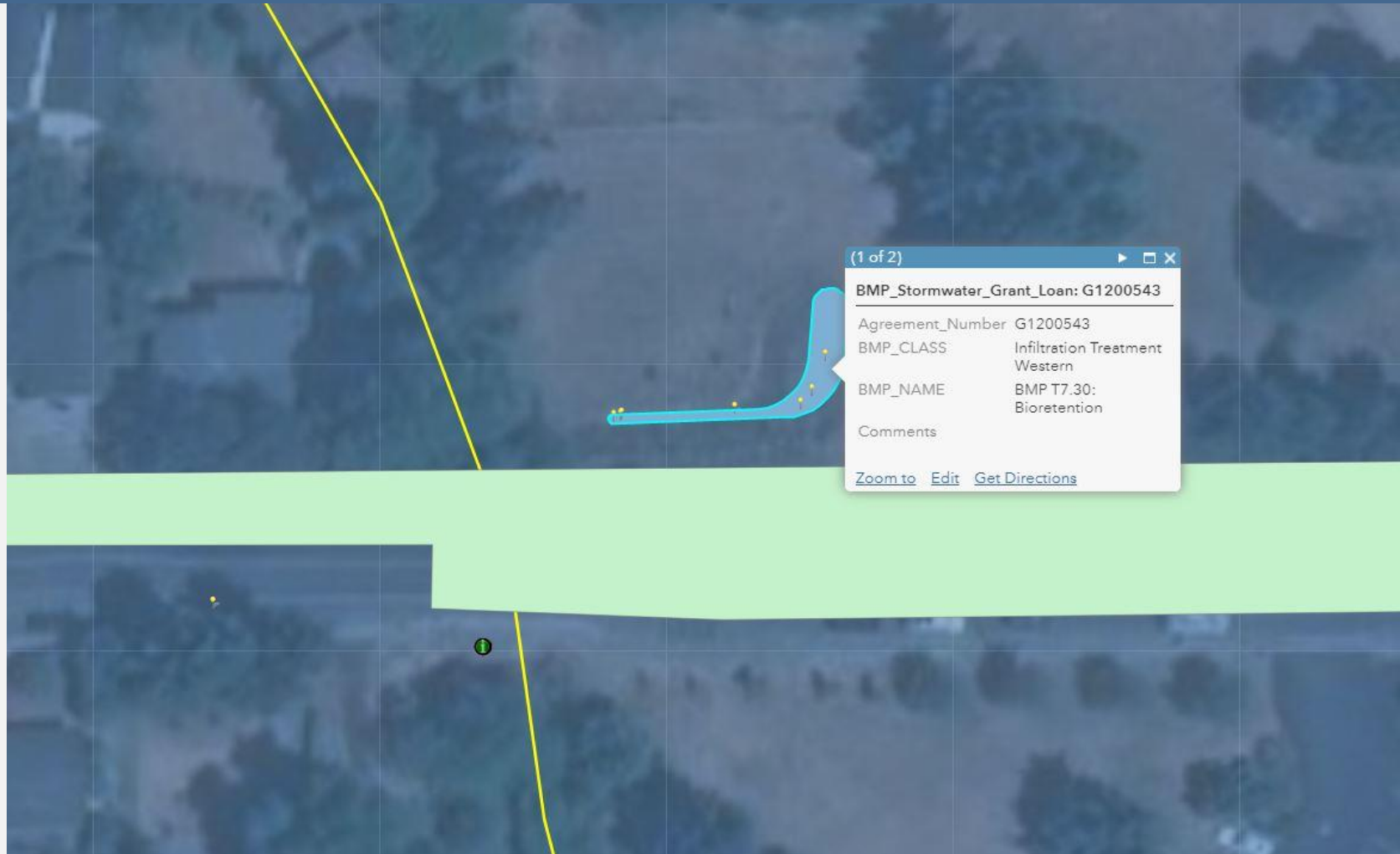
GIS Mapping is Important!



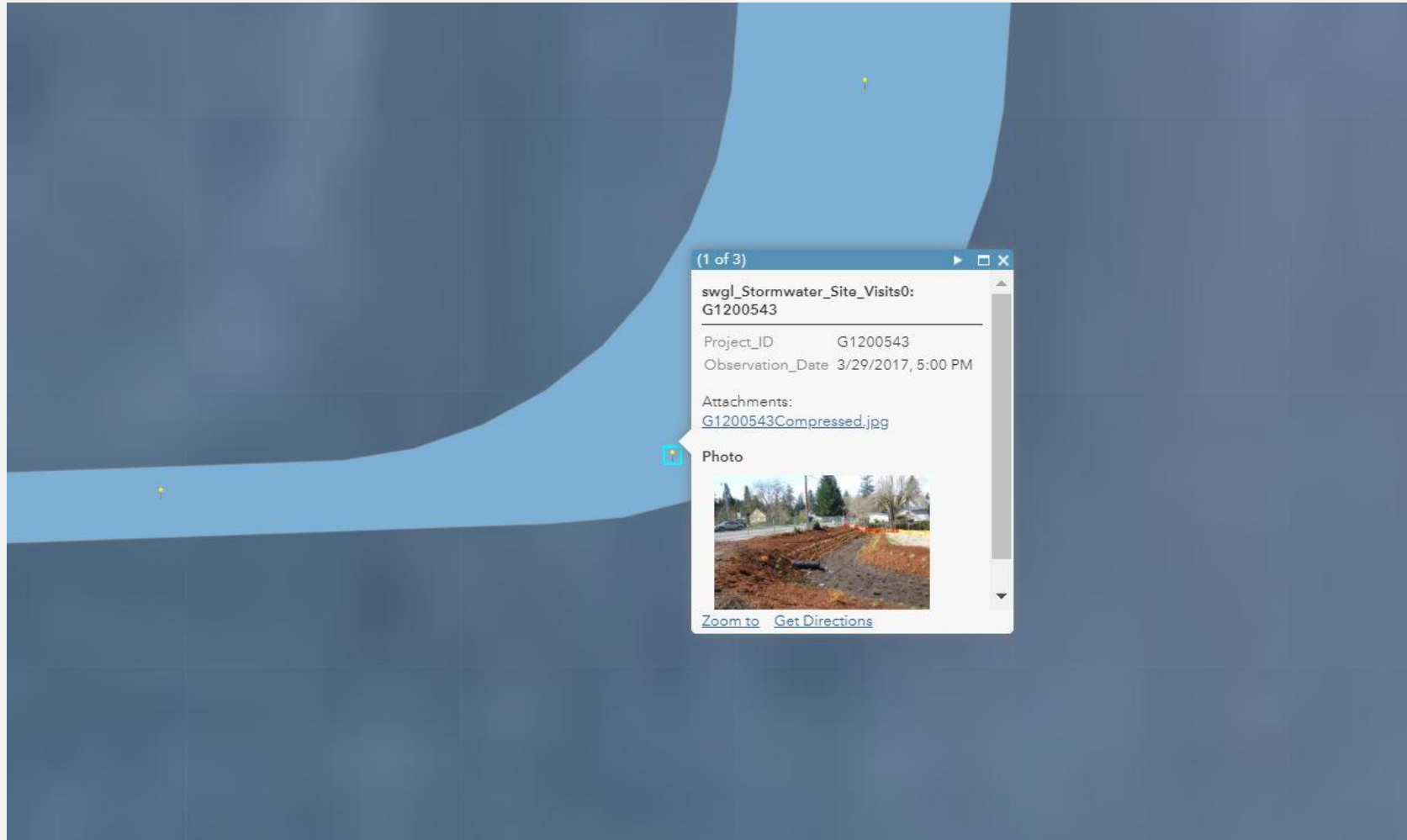
Deliverable: Contributing Area



Deliverable: BMP Footprint



Quality Control, Maintenance & Documentation



Quality Control, Maintenance & Documentation



Where is GIS Deliverable Guidance?

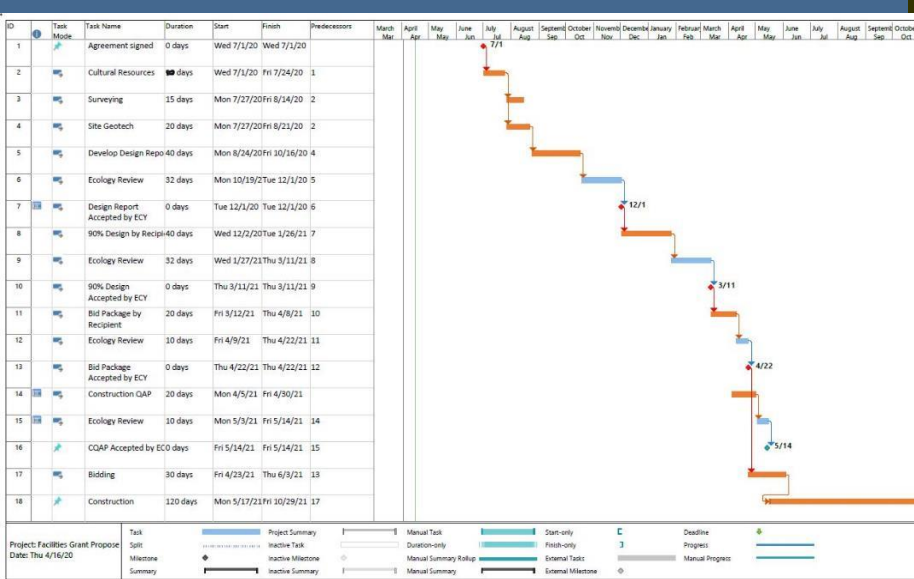
Deliverables found in
grant agreement

FY22 Grant Guidance – Stormwater Design Deliverables

Stormwater Grant Resources Page

- [General resources - Washington State Department of Ecology](#)





Remember to schedule time for GIS deliverables

Preliminary GIS Deliverable

- New deliverable last year
- GIS files showing what will be built

Closeout GIS Deliverable

- Part of the closeout task
- As constructed
- Remember to schedule for this task from the beginning of the project

Schedules and GIS Deliverables

What GIS Data does Ecology want?

1) Contributing area.

One polygon feature class with a single feature. The feature can be multipart, and must be a single record in the attribute table.

Fields should include:

- Project ID (i.e. agreement number), Contributing area (acres), PGIS (acres), Runoff Treatment benefit (acres), Flow Control benefit (acres), Comments

What GIS Data does Ecology want?

2) BMP footprint

One polygon feature class with a separate polygon feature for each BMP with multiple records in the attribute table.

Fields should include:

- Project ID (i.e. agreement number), BMP name, Comments



What GIS Data format?

- All GIS data must be polygon(s), and not lines or points.
- The standard Ecology Projection is Washington State Plane, South Zone, NAD 83 HARN, US Feet. Ecology may accept other projections so long as the files are readily accommodated by ArcMap.
- Shape files or File Geodatabases
- All GIS file data must be zipped (.zip) to upload to the EAGL
- An empty File Geodatabase template with acceptable schema is available on the [General Resources for Water Quality Grants & Loans webpage under Forms - Stormwater Agreement Materials](#)



Ecology Review

- Comparison between GIS data and design plans.
- Comparison between GIS data and field observations using GIS/GPS mapping application tools during site visits.
- Georeferenced photos.
- Comparison between GIS data and water quality benefit equivalent area calculations, as reported in Two-paged Outcome Summary Report during closeout.

Thank you to our funding recipients!

We appreciate your partnership and hard work.