# Soil Services for Conservation Planning

# Goal

1. “catch” any features where soils data and information may be expected that we might have missed
2. knowledge set of what is going on including any new features developed

## Summary of PI Development Meeting

1. PI planning is about working with the developers on what enhancements and new functionality will be developed
2. Biggest concern now is the soil service not working properly on assessments with a lot of fields.  Diagnosing that is highest priority.
3. Detailed assessments to dovetail the existing assessment. This isn’t completely fleshed out at this point. We are starting to plan out features for development (through PI planning) that will facilitate that possibility, but not there yet.
4. Practice variations and points associated with those variations utilizing the existing functionality of practice narratives. We are super early in those discussions of what might warrant a practice variation.
5. Coordinating new efforts in assessments of conditions

## CART Assessment

1. Develop Nitrogen Leaching Interpretation.
2. Write a SQL Script (Soil Data Access) Version of Erosion.
3. Add Soil Organic Carbon Stock to “Air Quality” resource concern.

## Environmental Assessment

“Team Aires”. In case it helps you choose among alternatives to spend time; Team Aires will focus on development of user-interfaces for making determinations and displaying status during PI-8 Planning.

Soils involvement will be helpful in the NRCS-staff configuration of assessment survey questions that use soil data. This feature is already built, but we have not been able to build-out all the SEC surveys yet. That will happen soon after the PI-8 planning meeting.

1. Farm Class
2. Hydric Soils

## Easements

1. Easements Drainage Class (Poorly and Very Poorly)
2. Easements Farm Class
3. Easements Hydric Soils
4. Flooding Frequency soils layer (potentially if needed)
5. Ecological site descriptions from soils data (potentially if needed)
6. Geomorphic position of soil map unit (potentially if needed)
7. Depth to water table (potentially if needed)

## CART Ranking

1. Develop soil interpretative map to help identify priority issues.

## HELC/Wetlands

1. Hydric Soils list
2. What’s available and what needs to be provided

## Outcomes

1. We need to be able to tag PLU attributes to a soil map unit and interpretations on the fly with data feeds.
   1. Some would need to have pre-generated reference table values based on a script (to be developed by SMEs)
   2. Some could pull direct soil interpretations.
2. We may only be able to do a few outcomes this way with soil data, but we could get the highest priority completed and evaluate the outcome.

## Future Development

1. Develop Soil Property and Interpretation SQL Scripts to assist conservation planning for specific practices.
2. Develop SQL scripts to assist in special conservation signups by identifying opportunities for conservation. Examples:
   1. Golden Wing Warblers can be found in alder (along swamps-edges). Soils data could be used to query certain locations and help identify customers (by locating the most productive sights for declining habitats).
   2. Karner Blue Butterfly Habitat Identification.
      1. The Karner Blue Butterfly (KBB) is a federally listed endanger species
      2. KBB caterpillars feed exclusively on the leaves of wild lupine.
      3. NRCS and partner staff wanted to identify likely lupine habitat to prioritize for protection under NRCS easements and related programs.
      4. NRCS and partner agencies have begun using these results to help identify opportunities for conservation easements funds to identify critical areas.
      5. This process could be used to identify customers.
3. Add thematic maps by map unit and landunit.

## Links

1. CART Main Page: <https://jneme910.github.io/CART/>
2. Future Development: <https://jneme910.github.io/CART/chapters/future>
3. Outcomes: <https://jneme910.github.io/CART/chapters/Outcomes>

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| Tuesday | | | | |
| 3/24/2020 | | | | |
| Start | Finish | What | Location | Attendees |
| 10:00 AM | 10:15 AM | SSD PI Planning Welcome | WebEx will be sent - RTE - Shawn Fitzgerald | ALL |
| 10:15 AM | 12:00 AM | PI System Demo |
| 12:00 PM | 1:00 PM | Break for Lunch |
| 1:00 PM | 2:00 PM | Business Context |
| 2:00 PM | 2:30 PM | PI 7 Retrospective |
| 2:30 PM | 5:00 PM | Breakouts start |  | Teams, Stakeholders |
|  |  |  |  |  |
| Wednesday | | | | |
| 3/25/2020 | | | | |
| Start | Finish | What | Location | Attendees |
| 8:00 AM | 8:30 AM | Breakout Sessions Kickoff - Day 2 | Teams Invite | Scrum Masters, PML's, RTE |
| 8:30 AM | 11:30 AM | Breakout Sessions | Teams Invite | Teams |
| 11:30 AM | 11:45 PM | Scrum of Scrums | Teams Invite | Scrum Masters |
| 11:45 PM | 12:15 PM | Lunch | On your own |  |
| 12:15 PM | 1:45 PM | Breakout Sessions | Teams Invite | Teams |
| 1:45 PM | 2:00 PM | Scrum of Scrums | Teams Invite | Scrum Masters |
| 2:00 AM | 2:15 PM | Program Board Review | Teams Invite | PMLs, Scrum Masters, RTE |
| 2:15 PM | 3:00 PM | Breakout Sessions | Teams Invite | Teams |
| 3:00 PM | 5:00 PM | Draft Plan Readouts | WebEx will be sent - RTE - Shawn Fitzgerald | Scrum Masters, Product Management Liaisons, Product Owner Liaisons, ASRC Mgmt., Govt Execs. |
| 5:00 PM | 6:00 PM | Management Problem Solving | Teams Invite | ASRC Management, Govt Execs. |
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| Thursday | | | | |
| 3/26/2020 | | | | |
| Start | Finish | What | Location | Attendees |
| 8:15 AM | 8:45 AM | Planning Adjustments debrief | Teams Invite | Teams |
| 8:45 AM | 10:45 AM | Breakout Sessions | Teams Invite | Teams |
| 10:45 AM | 11:00 AM | Scrum of Scrums | Teams Invite | Scrum Masters |
| 11:00 AM | 11:30 PM | Program Board Review | Teams Invite | PMLs, Scrum Masters, RTE |
| 11:30 AM | 12:00 PM | Breakout Sessions | Teams Invite | Teams |
| 12:00 PM | 12:30 PM | Lunch | On your own | All |
| 12:30 PM | 2:00 PM | Breakout Sessions | Teams Invite | Teams |
| 2:00 PM | 3:30 PM | Final Plan Readout | Webex will be sent - RTE - Shawn Fitzgerald | All |
| 3:30 PM | 3:45 PM | PI confidence vote | All |
| 3:45 PM | 4:30 PM | Plan Rework (if necessary) | All |
| 4:30 PM | 5:15 PM | Retro, Moving Forward, Final Instructions | All |