

Development of Water Quality Standards for Willard Spur

Path Forward

November 7, 2013

Path to Completion 2011

Plan Formulation

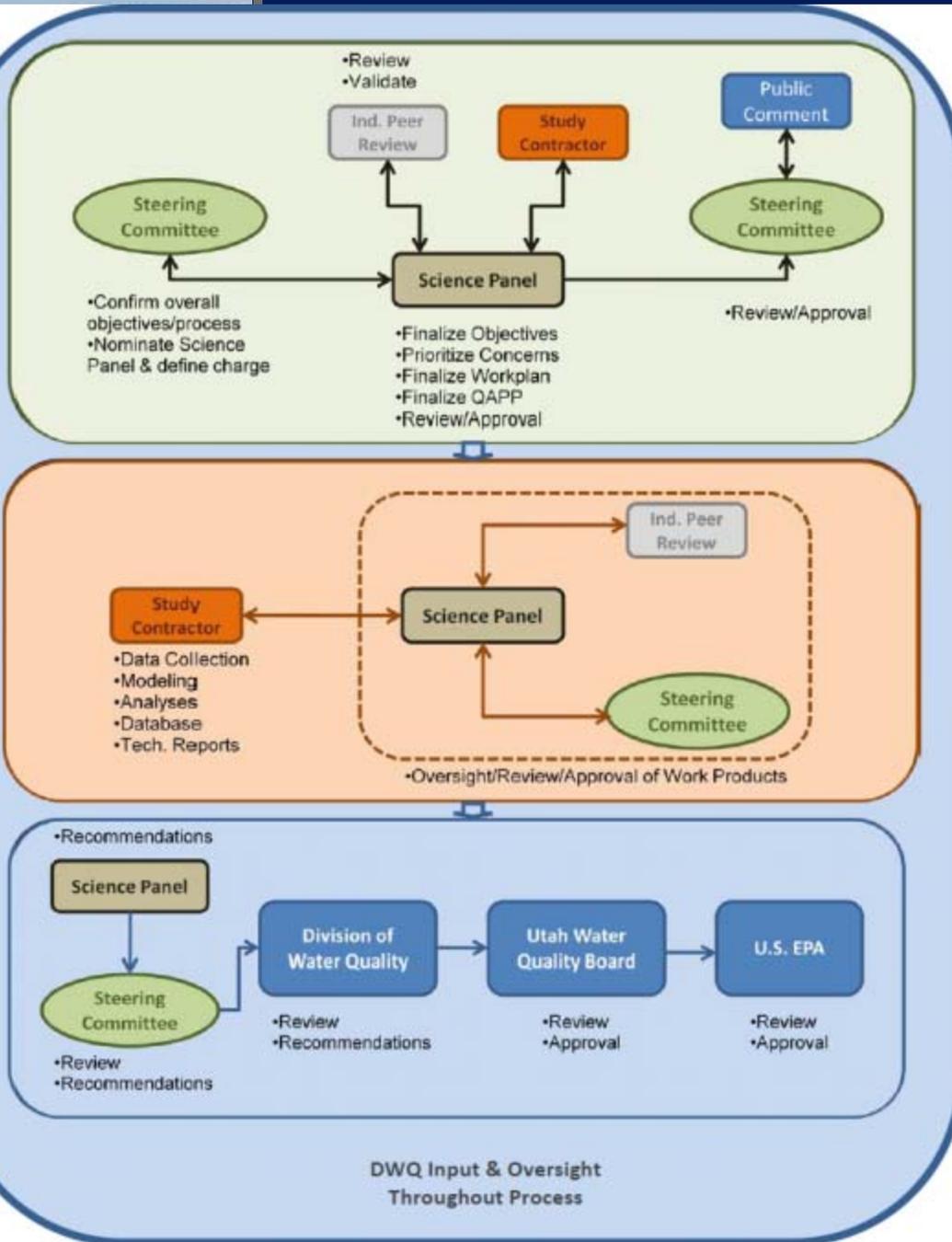
2012-2013

Research & Evaluation

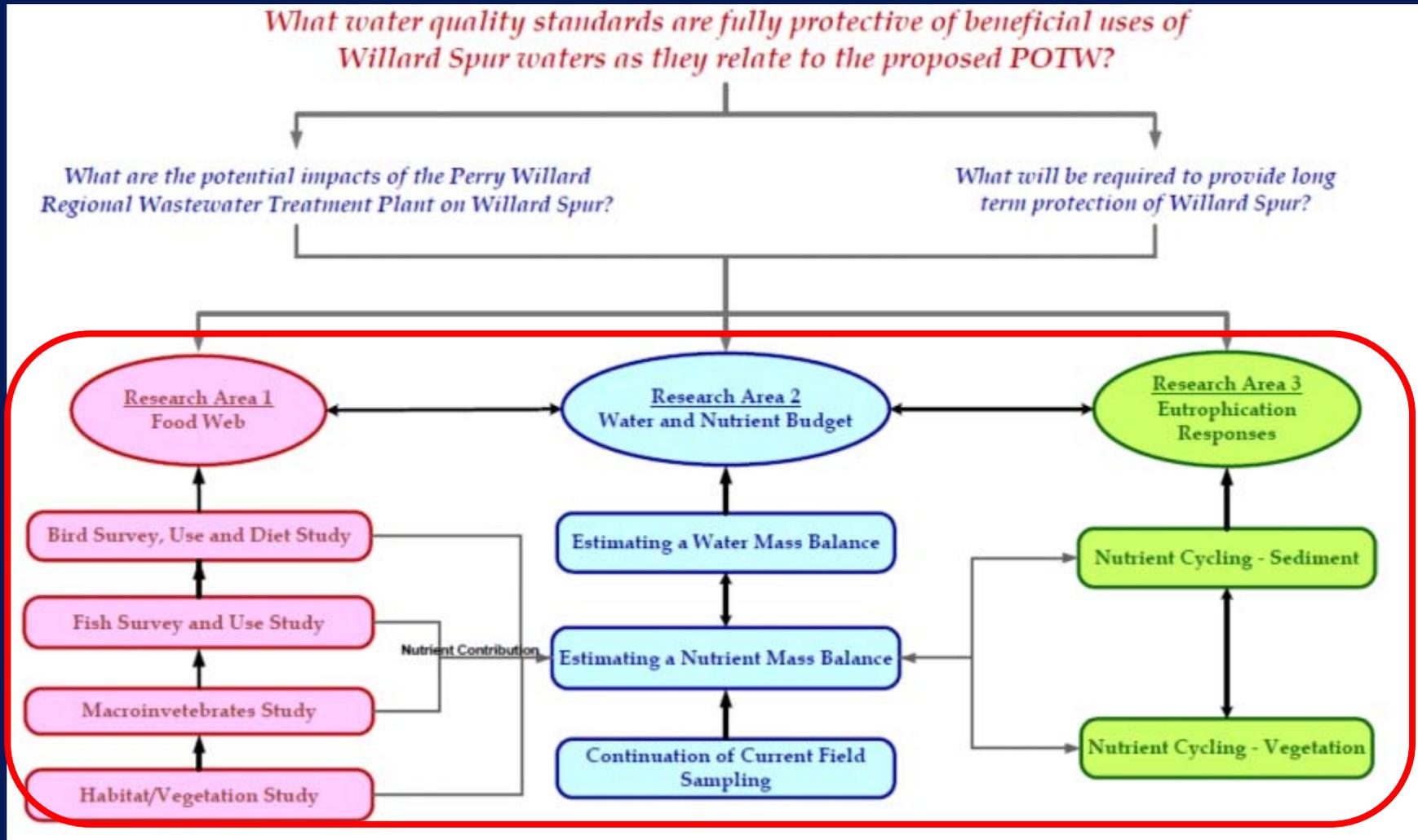
2014

Reporting & Recommendations

DWQ Input & Oversight
Throughout Process



Research Plan for 2011-2012



Looking at historic and current changes due to nutrients

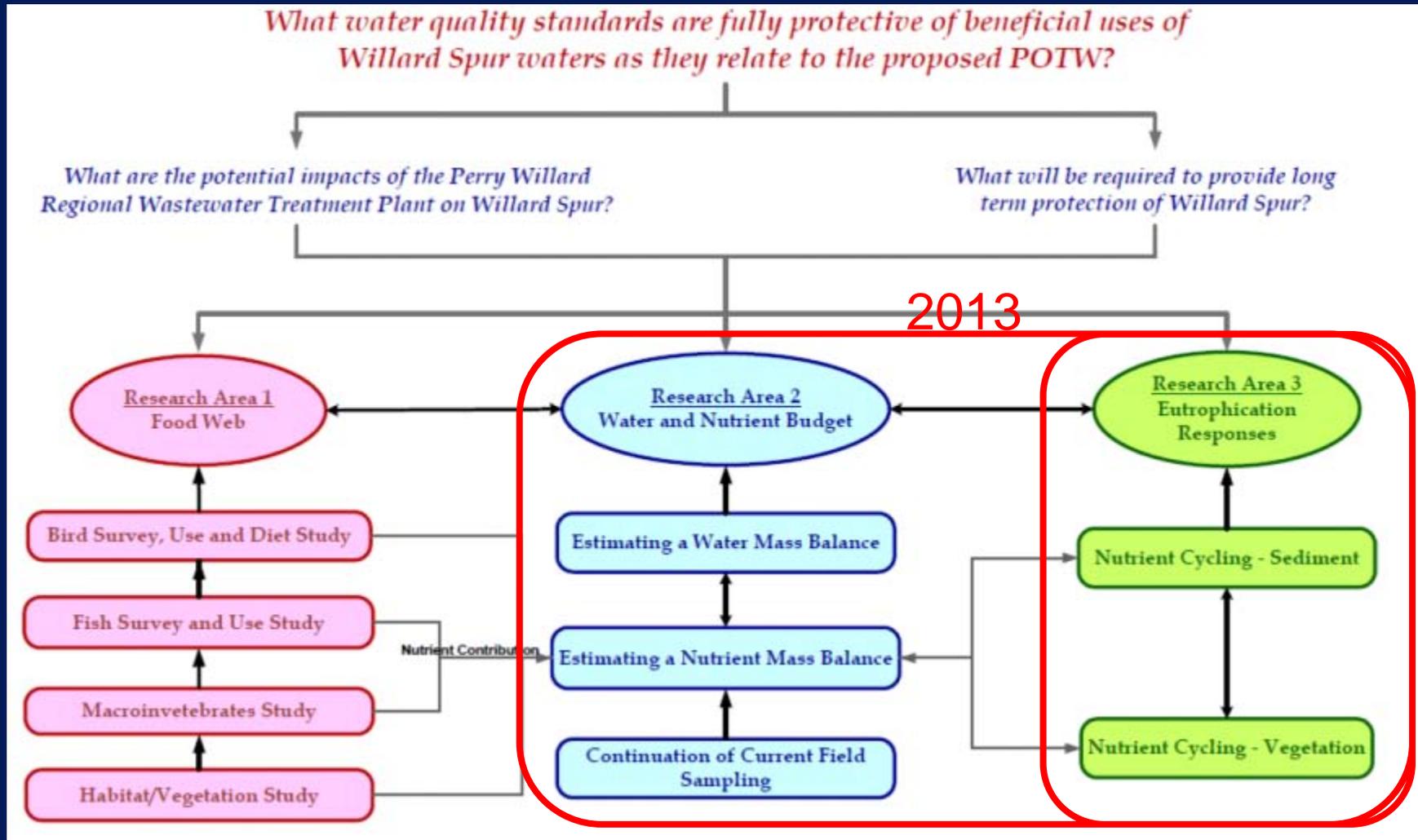
Looking at potential future changes due to nutrients

Status of 2012 Studies/Reports

Description	Status
1 Bird Literature Review, Bird Use & Diet Study	Draft, to be final in December 2013
2 Fish Literature Review & Use Study	Final, on website
3 Macroinvertebrates Literature Review	2011-2012 reports are Final, on website
4 Habitat/Vegetation Literature Review	Final, on website
5 Hydrology & Nutrient Load Summary	Final, on website
6 2012 Nutrient Cycling Study	Final, on website



Research Plan for 2013



Looking at historic and current changes due to nutrients

Looking at potential future changes due to nutrients

Status of 2013 Studies/Reports

	Description	Status
1	1 Plant Impacts Evaluation	In draft form, final data expected in January, final report in March 2014
2	2 2013 Nutrient Cycling Study	Draft report December 15, Final report February 2014
	3 UofU Microcosm Study	Draft report December 15, Final report February 2014
3	4 DWQ Mesocosm Study	Draft report December 15, Final report February 2014
4	5 Hydrology & Nutrient Load Summary	Draft report January, Final report March 2014
	6 2013 Macroinvertebrate Study	Draft report January, Final report March 2014

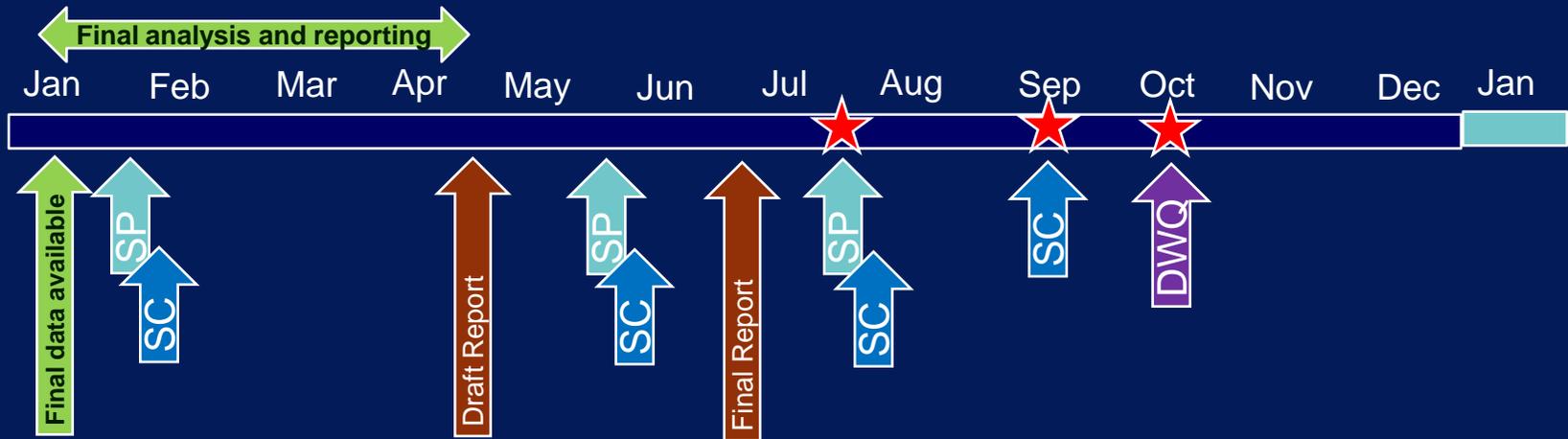


Plan for Program Reporting

Description	Status
1 2011-2013 Hydrology Study	Draft April 28, 2014 Final June 30, 2014
2 2011-2013 Nutrient Load Estimates	Draft April 28, 2014 Final June 30, 2014
3 2011-2013 Open Water Characteristics	Draft April 28, 2014 Final June 30, 2014
4 2012-2013 Nutrient Cycling Study	Draft April 28, 2014 Final June 30, 2014
5 Summary Technical Report	Draft April 28, 2014 Final June 30, 2014
6 Management Alternatives & Recommendations	Draft May 30, 2014 Final September 30, 2014



Path Toward Completion - 2014



-  Science Panel meeting
-  Steering Committee Meeting
-  Final Recommendation



Next Science Panel Meeting

- **January 29-30, 2014** **Steering Comm.**
- **Two – day workshop** **On Jan. 30?**
 - Day 1 – review results of various projects
 - Day 2 – discuss results in light of program objectives, identify alternatives
- **Outcome s**
 - Direction for final technical report
 - Establish foundation/guidelines for evaluation of alternatives





Action Items

- **Consider our objective:**

“What water quality standards are fully protective of beneficial uses of Willard Spur waters as they relate to the proposed POTW discharge?”
- **What does that mean to you?**
- **What alternatives can you envision?**



October 24, 2013

October 2, 2013

Questions?

Photos at WS6, Courtesy DWQ