
SSO 700 Integrated Watershed Action Plan Progress Report No. 17 June 2016

PREPARED FOR: Metropolitan Sewer District of Greater Cincinnati
PREPARED BY: Frank Duran
DATE: July 20, 2016
PROJECT NUMBER: MSDGC: 11140010
CH2M: 498759

Purpose: The purpose of this report is to document the progress of the SSO 700 Integrated Watershed Action Plan (IWAP) project from **May 28, 2016** through **June 24, 2016**. For each task, a summary of work performed during the reporting period and the work planned for the upcoming reporting period are presented. A discussion of the project schedule and outstanding project issues is also presented.

Overview: This reporting period for the SSO 700 IWAP project captures progress made on the collection system model calibration and the water quality model development and calibration, submission of *Task 2.6.2.3 WASP Water Quality Model Eutrophication Kinetics for the SSO 700 IWAP Informational Technical Memorandum*, and response to comments on and revision to the *SSO 700 IWAP Hydraulic Model Calibration and Validation Criteria Comparison Informational Technical Memorandum* and the meeting summary for the March 14th Pilot Study Meeting.

With respect to the schedule, the project is behind schedule by approximately six weeks due to technical and administrative challenges associated with model calibration and the delay in authorization to proceed with Phase 2 tasks. The final Phase 2 milestone, delivery of the *Final Integrated Watershed Action Plan* to the Regulators by the end of June 2017, is unlikely to be achieved based on the current draft Phase 2 scope previously reviewed with MSDGC and the County. The timing of the delivery of the *Final Integrated Watershed Action Plan* to the Regulators is now highly dependent upon the authorization of the Phase 2 work. The detailed Phase 2 scope will be provided in an updated baseline schedule when the Phase 2 work is authorized.

Section 1 - Work Progress

This section summarizes project progress by CH2M during the reporting period and identifies work planned for the upcoming reporting period by task as listed in the Contract scope of work. A log of project deliverables is attached at the end of this progress report.

Task 1.0: Project Administration

1.1 Project Management

Work completed during the reporting period:

- Submission of May 2016 progress report.

Work planned for the upcoming reporting period:

- Submission of June 2016 progress report.

1.2 Project Meetings

Work completed during the reporting period:

- Submission of meeting summary from the April 7th meeting with Hamilton County Planning and Village of Lincoln Heights on June 6th.
- Attendance at June 23rd meeting on *Task 3.1 Evaluation Tools Informational Technical Memorandum*.

Work planned for the upcoming reporting period:

- Develop and submit a meeting summary for the June 23rd meeting on *Task 3.1 Evaluation Tools Informational Technical Memorandum*.
- Schedule and attend meeting on the hydraulic model calibration results.
- Schedule and attend meeting on the water quality modeling development and calibration.
- Prepare and submit responses to County comments on the meeting summary for the April 18th Progress Meeting.

1.3 Quality Assurance and Quality Control

Initial planned work under this task is complete. Update of the QA/QC plan will occur as project conditions warrant.

1.4 Risk Management

Initial planned work under this task is complete. Update of the Risk Management Plan will occur as project conditions warrant.

1.5 Schedule

Work completed during the reporting period:

- Prepared an updated project progress schedule with the May progress report.

Work planned for the upcoming reporting period:

- Prepare an updated schedule in conjunction with the June progress report.
- Prepare an updated baseline schedule with detailed Phase 2 tasks once Phase 2 work is authorized.

Task 2.0: Watershed and Source Characterization

2.1 Watershed Selection and Delineation

Task Complete.

2.2 Data Collection

Task Complete.

2.3 Site Visits

Task Complete.

2.4 Inventory and Gap Analysis

Task Complete.

2.5 Water Quality Data Collection Program

Work completed during the reporting period:

- Submission of raw data collected under the Water Quality Data Collection Program on May 31st.

Work planned for the upcoming reporting period:

- Develop water quality sampling results maps of the watershed in response to request from the County.

2.6 Watershed Water Quality Models Update & Development

Work completed during the reporting period:

- Continued development and calibration of watershed and surface water quality models.
- Submission of *Task 2.6.2.3 WASP Water Quality Model Eutrophication Kinetics for the SSO 700 IWAP Informational Technical Memorandum* on June 10th.

Work planned for the upcoming reporting period:

- Proceed with development and calibration of watershed and surface water quality models.

2.7 Hydraulic Model Update & Development

Work completed during the reporting period:

- Continued calibration of the remainder of the SSO 700 IWAP sewer shed.
- Submittal of response to County comments on the *SSO 700 IWAP Hydraulic Model Calibration and Validation Criteria Comparison Informational Technical Memorandum* and the meeting summary for the March 14th Pilot Study Meeting. Revisions to both the meeting summary and the informational technical memorandum were provided.
- Coordination with MSDGC Collections Division on the field verification of flooding manholes.

Work planned for the upcoming reporting period:

- Proceed with calibration and validation of the hydraulic model.
- Respond to County comments on the meeting summary for the April 28th meeting on the collection system model validation approach.
- Finalization of field verification of flooding manholes.

Task 3.0: Identify Pollution Sources & Use Tools to Evaluate Collection System Response & Waterway Response

3.1 Develop Evaluation Periods and Operational Strategy

Work completed during the reporting period:

- Attended meeting with MSDGC and the County on June 23rd to discuss the *Task 3.1 SSO 700 IWAP Evaluation Tools Summary Technical Memorandum*.

Work planned for the upcoming reporting period:

- Revise and submit *Task 3.1 SSO 700 IWAP Evaluation Tools Summary Technical Memorandum* per comments received.

3.2 Apply Collection System Model to Calculate Pollutant Source Contributions

No work has yet been performed under this task.

3.3 Apply Watershed Models to Calculate Pollutant Source Contributions

No work has yet been performed under this task.

3.4 Apply Surface Water Quality Models to Determine Overflow Impacts

No work has yet been performed under this task.

3.5 Allocate Pollutant Loadings

No work has yet been performed under this task.

3.6 Rank & Compare Pollutant Sources

No work has yet been performed under this task.

3.7 Identify Pollutants & Sources Causing Impairment

No work has yet been performed under this task.

Task 4.0: Summary Report

Work completed during the reporting period:

- Began development of draft outline for Summary Report

Work planned for the upcoming reporting period:

- Complete draft outline for Summary Report.

Section 2 - Schedule

The progress schedule is attached to this progress report in four formats. The first schedule presents only the progress of the critical path tasks. The second schedule presents a high level overview of all the project tasks. The third schedule presents the 90-day look ahead schedule of tasks in progress or scheduled to begin. The fourth schedule presents the latest project schedule by each detailed task with the progress of the work by task shown versus the baseline schedule.

Based on the current project schedule, the key tasks over the next 90 days are the completion of the water quality models, the completion of the collection system hydraulic model, and commencement with the Task 3 component analysis for the development of the pollutant pie charts. During this period, the critical path is primarily driven through the water quality model development task, specifically the WASP model calibrations. Per this month's progress schedule, the project is behind schedule by approximately six weeks due to the following: (1) challenges encountered with calibrating to available flow data, (2) technical challenges associated with the EFDC-WASP model linkage requiring troubleshooting, (3) new requirements for the validation of the collection system model, (4) addressing new comments on the water quality model calibration and validation approach, (5) technical challenges associated with calibrating to collected water quality data, and (6) delay in the contracting of the Phase 2 work. Given the current draft Phase 2 scope, this schedule deficit is unlikely to be fully recovered to the degree necessary to achieve the ultimate schedule milestone of submittal of the draft IWAP Plan to the Regulators by June 30, 2017. The detailed Phase 2 scope will be provided in an updated baseline schedule when the Phase 2 work is authorized.

Section 3 – Project Issues

Currently, the only project issue of note is schedule. The water quality modeling tasks have been behind schedule due to technical challenges. Recent questions and comments from the County on the project's standards for validation of the collection system model and the calibration and validation approach for the water quality models have further impacted the project schedule. Additionally, because the Phase 2 work has not yet been authorized, the Phase 2 work is now behind schedule as well. The final Phase 2 milestone, delivery of the draft *Final Integrated Watershed Action Plan* to the Regulators by June 2017, is unlikely to be achieved. The timing of the delivery of the *Final Integrated Watershed Action Plan* to the Regulators is highly dependent upon the authorization of the Phase 2 work.

No other project issues have been identified at this time.



**MSDGC-Hamilton County
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Project Deliverable Log as of 7/20/2016

TASK NO.	TASK NAME	DELIVERABLE TYPE	DELIVERABLE NAME	ORIGINAL SUBMITTED DATE	STATUS	FINAL VERSION DATE	COMMENT	
Task 1 - Project Administration								
1.1	Project Management	Major Submittal	Schedule	Baseline Schedule	1/15/2015	Final	2/2/2015	
1.1	Project Management	Informational	Progress Report and Schedule	Progress Report No. 1, January 2015	2/5/2015	Final	2/5/2015	Format of progress report accepted by MSDGC.
1.1	Project Management	Informational	Progress Report and Schedule	Progress Report No. 2, February 2015	3/18/2015	Final	3/18/2015	
1.1	Project Management	Informational	Progress Report and Schedule	Progress Report No. 3, March 2015	4/8/2015	Final	4/8/2015	
1.1	Project Management	Informational	Progress Report and Schedule	Progress Report No. 4, April 2015	5/8/2015	Final	5/8/2015	
1.1	Project Management	Informational	Progress Report and Schedule	Progress Report No. 5, May 2015	6/17/2015	Final	6/17/2015	
1.1	Project Management	Informational	Progress Report and Schedule	Progress Report No. 6, June 2015	7/9/2015	Final	7/9/2015	
1.1	Project Management	Informational	Progress Report and Schedule	Progress Report No. 7, July 2015	8/25/2015	Final	8/24/2015	
1.1	Project Management	Informational	Progress Report and Schedule	Progress Report No. 8, August 2015	9/24/2015	Final	9/24/2015	
1.1	Project Management	Informational	Progress Report and Schedule	Progress Report No. 9, September 2015	10/19/2015	Final	10/19/2015	
1.1	Project Management	Informational	Progress Report and Schedule	Progress Report No. 10, October 2015	11/17/2015	Final	11/17/2015	
1.1	Project Management	Informational	Progress Report and Schedule	Progress Report No. 11, November/December 2015	1/15/2016	Final	1/15/2016	
1.1	Project Management	Informational	Progress Report and Schedule	Progress Report No. 12, January 2016	2/12/2016	Final	2/12/2016	
1.1	Project Management	Informational	Progress Report and Schedule	Progress Report No. 13, February 2016	3/13/2016	Final	3/13/2016	
1.1	Project Management	Informational	Progress Report and Schedule	Progress Report No. 14, March 2016	4/20/2016	Final	4/20/2016	
1.1	Project Management	Informational	Progress Report and Schedule	Progress Report No. 15, April 2016	5/20/2016	Final	5/20/2016	
1.1	Project Management	Informational	Progress Report and Schedule	Progress Report No. 16, May 2016	6/13/2016	Final	6/13/2016	
1.1	Project Management	Informational	Progress Report and Schedule	Progress Report No. 17, June 2016	7/20/2016	Final	7/20/2016	
1.1	Project Management	Major Submittal	Plan	Project Management Plan, including Quality Control Document and Risk Register	3/5/2015	Final	4/3/2015	
1.1	Project Management	Major Submittal	Plan	Project Management Plan (Rev 1), including Quality Control Document and Risk Register	4/12/2016	Final	4/12/2016	To be updated only as warranted after first draft is approved.
1.1	Project Management	Informational	Informational Technical Memorandum	Phase 1B Scope Clarification Informational TM	1/18/2016	Final	4/19/2016	
1.1	Project Management	Informational	Informational Technical Memorandum	Phase 2 Tasks Scope of Work	2/26/2016	Final Draft 5/13/2106	Under review by MSDGC and County	
1.1	Project Management	Informational	Informational Technical Memorandum	Phase 2 Tasks Level of Effort			To be determined once Phase 2 SOW finalized	
1.2	Project Meetings	Informational	Meeting Summary	Chartering Meeting Summary 12/17/2014	1/6/2015	Final	1/6/2015	
1.2	Project Meetings	Minor Submittal	Charter	Project Charter	2/19/2015	Final	4/3/2015	
1.2	Project Meetings	Informational	Meeting Summary	Progress Meeting Summary 2/19/2015	2/24/2015	Final	2/24/2015	
1.2	Project Meetings	Informational	Meeting Summary	Progress Meeting Summary 3/19/2015	3/30/2015	Final	3/30/2015	
1.2	Project Meetings	Informational	Meeting Summary	Progress Meeting Summary 4/27/2015	5/6/2015	Final	5/6/2015	
1.2	Project Meetings	Informational	Meeting Summary	Progress Meeting Summary 6/15/2015	7/16/2015	Final	7/16/2015	
1.2	Project Meetings	Informational	Meeting Summary	Progress Meeting Summary 9/14/2015	9/22/2015	Final	9/22/2015	
1.2	Project Meetings	Informational	Meeting Summary	Progress Meeting Summary 12/17/2015	1/4/2016	Final	1/4/2016	
1.2	Project Meetings	Informational	Meeting Summary	Progress Meeting Summary 01/28/2016	2/4/2016	Final	2/4/2016	
1.2	Project Meetings	Informational	Meeting Summary	Progress Meeting Summary 03/14/2016	3/17/2016	Final	3/17/2016	
1.2	Project Meetings	Informational	Meeting Summary	Progress Meeting Summary 04/18/2016	5/9/2016	Final	5/9/2016	
1.2	Project Meetings	Informational	Meeting Summary	Progress Meeting Summary 04/18/2016, Revision 1	7/12/2016	Final	7/12/2016	



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TASK NO.	TASK NAME	DELIVERABLE TYPE	DELIVERABLE NAME	ORIGINAL SUBMITTED DATE	STATUS	FINAL VERSION DATE	COMMENT
1.2	Project Meetings	Informational	Meeting Summary	Steering Committee Meeting Summary 2/11/2015	2/16/2015	Final	2/16/2015
1.2	Project Meetings	Informational	Meeting Summary	Steering Committee Meeting Summary 6/12/2015	6/23/2015	Final	7/17/2015
1.2	Project Meetings	Informational	Meeting Summary	Steering Committee Meeting Summary 2/25/2016	3/17/2016	Final	3/17/2016
1.2	Project Meetings	Informational	Meeting Summary	Phase 2 Scope of Work Meeting Summary 4/29/2016	5/11/2016	Final	5/11/2016
1.2	Jurisdictional Meetings	Informational	Meeting Summary	City of Reading Meeting Summary 3/18/2015	4/2/2015	Final	4/2/2015
1.2	Jurisdictional Meetings	Informational	Meeting Summary	City of Sharonville Meeting Summary 4/8/2015	4/21/2015	Final	4/21/2015
1.2	Jurisdictional Meetings	Informational	Meeting Summary	Village of Woodlawn Meeting Summary 4/15/2015	4/30/2015	Final	4/30/2015
1.2	Jurisdictional Meetings	Informational	Meeting Summary	City of Blue Ash Meeting Summary 5/11/2015	9/16/2015	Final	9/16/2015
1.2	Jurisdictional Meetings	Informational	Meeting Summary	City of Springdale Meeting Summary 5/22/2015	9/16/2015	Final	9/16/2015
1.2	Jurisdictional Meetings	Informational	Meeting Summary	Village of Evendale Summary 8/12/2015	9/11/2015	Final	9/11/2015
1.2	Jurisdictional Meetings	Informational	Meeting Summary	Lincoln Heights and Hamilton County Planning 4/7/2016	6/6/2016	Final	6/6/2016
1.3	Quality Assurance and Quality Control	Major Submittal	Plan	Quality Control Document (included as part of PMP)	3/5/2015	Final	4/3/2015
1.4	Risk Management	Major Submittal	Plan	Risk Management Plan (Risk Register), (included as part of PMP)	3/5/2015	Final	4/3/2015 Risk register discussed at 3/19 progress meeting.
Task 2 - Watershed and Source Characterization							
2.1	Watershed Selection and Delineation	Major Submittal	Shapefile	SSO700_IWAP_StudyAreaBoundary.shp	1/30/2015	Final	1/30/2015
2.1	Watershed Selection and Delineation	Major Submittal	Shapefile	EBMC_Sewershed.shp	1/30/2015	Final	1/30/2015
2.1	Watershed Selection and Delineation	Major Submittal	Shapefile	EBMC_Watershed.shp	1/30/2015	Final	1/30/2015 May be further refined based on additional storm data received.
2.1	Watershed Selection and Delineation	Informational	Technical Memorandum	SSO 700 Integrated Watershed Action Plan Study Area Boundary Development	1/30/2015	Final	1/30/2015 Unofficial submittal; to be included with Data Inventory TM; comments received to be included with Data Inventory TM
2.2	Data Collection	Major Submittal	Technical Memorandum	SSO 700 Watershed Data Request	8/26/2014	Update as required	Latest version 12/12/2014
2.3	Site Visits	Major Submittal	Technical Memorandum	Watershed Site Conditions TM	5/18/2015	Final	7/7/2015
2.4	Inventory and Gap Analysis	Informational	Technical Memorandum Draft Outline	Inventory and Gap Analysis Draft Outline	2/10/2015	Comments Received	NA Comments will be addressed in draft Tech Memo
2.4	Inventory and Gap Analysis	Major Submittal	Technical Memorandum	Inventory and Gap Analysis	draft 3/9/2015	Final	11/23/2015
2.5	Water Quality Data Collection Program	Major Submittal	Technical Memorandum	Water Quality Data Collection Program Detailed SOW/LOE	4/17/2015	Final	Received authorization on 4/27/15 to begin initial documentation required for the Water Quality Sampling Program based on this TM; became Exh. C for WO Mod No. 1
2.5	Water Quality Data Collection Program	Informational	Meeting Summary	MSDGC Lab and Sampling Group Meeting Summary 4/14/2015	4/30/2015	Final	4/30/2015
2.5	Water Quality Data Collection Program	Major Submittal	Plan	Quality Assurance Project Plan (QAPP)	6/3/2015	Final	7/30/2015
2.5	Water Quality Data Collection Program	Major Submittal	Plan	Sampling and Analysis Plan	6/3/2015	Final	7/30/2015
2.5	Water Quality Data Collection Program	Informational	Plan	Health and Safety Plan			Consultant Team use only.
2.5	Water Quality Data Collection Program	Informational	Technical Memorandum	Recommendations Regarding Flow Metering of Outfalls/Overflows TM	6/18/2015	Final	6/18/2015
2.5	Water Quality Data Collection Program	Informational	Task Scope and Level of Effort	Meeting Summary for CSO/SSO Flow Monitor Discussion Meeting 6/30/2015	7/2/2015	Final	7/2/2015
2.5	Water Quality Data Collection Program	Major Submittal	Technical Memorandum	Water Quality Data Collection Program Summary Technical Memorandum	1/25/2016	Final	5/9/2016
2.6.1	Existing Watershed Water Quality Models Assessment	Informational	Technical Memorandum Draft Outline	Watershed Water Quality Models Gap Analysis and Update Assessment Draft Outline	2/10/2015	Comments Received	NA Comments will be addressed in draft Tech Memo
2.6.1	Existing Watershed Water Quality Models Assessment	Major Submittal	Technical Memorandum	Watershed Water Quality Models Gap Analysis and Update Assessment	3/12/2015	Final	5/18/2015
2.6.1	Existing Watershed Water Quality Models Assessment	Informational	Meeting Summary	Meeting Summary for Water Quality Framework Meeting 3/19/2015	3/30/2015	Final	4/6/2015



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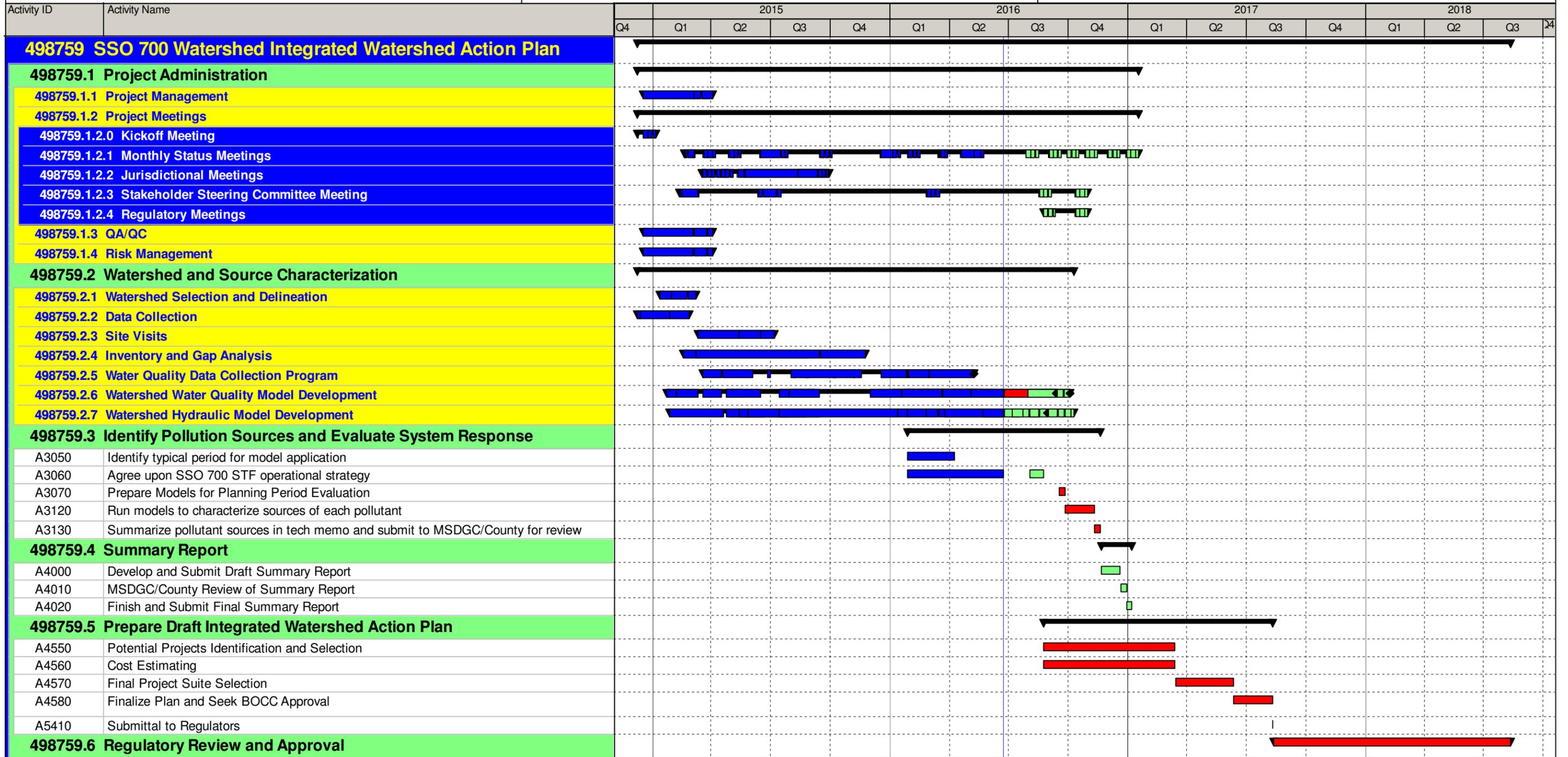
Project Deliverable Log as of 7/20/2016

TASK NO.	TASK NAME	DELIVERABLE TYPE	DELIVERABLE NAME	ORIGINAL SUBMITTED DATE	STATUS	FINAL VERSION DATE	COMMENT	
2.6.1	Existing Watershed Water Quality Models Assessment	Informational	Meeting Summary	Meeting Summary for Water Quality Sampling Program and Model Development Meeting 4/27/2015	5/6/2015	Final	5/6/2015	
2.6.2	Watershed Water Quality Models Development	Major Submittal	Technical Memorandum	Water Quality Model Development Detailed SOW/LOE	4/17/2015	Final	4/27/2015	Finalized as part of work order modification.
2.6.2	Watershed Water Quality Models Development	Informational	Technical Memorandum	Watershed and Surface Water Quality Model Calibration Approach TM	5/18/2015	Final	9/14/2015	Finalized as part of work order modification.
2.6.2	Watershed Water Quality Models Development	Informational	Technical Memorandum	Watershed and Surface Water Quality Model Calibration Approach TM, Revision 1	5/27/2016	Final	5/27/2016	Comments will be addressed in the draft Watershed and Surface Water Quality Model Development and Calibration TM
2.6.2	Watershed Water Quality Models Development	Informational	Informational Technical Memorandum	Watershed Model Subcatchment Delineation for the SSO 700 IWAP Project Area TM	9/4/2015	Final	9/4/2015	Comments will be addressed in the draft Watershed and Surface Water Quality Model Development and Calibration TM
2.6.2	Watershed Water Quality Models Development	Informational	Informational Technical Memorandum	Task 2.6.2.3 EFDC Surface Water Quality Model Expansion and Update Informational TM	2/8/2016	Final	2/8/2016	Comments will be addressed in the draft Watershed and Surface Water Quality Model Development and Calibration TM
2.6.2	Watershed Water Quality Models Development	Informational	Informational Technical Memorandum	Selection of Initial Event Mean Concentrations for the SSO 700 IWAP Project Area Informational Technical Memorandum	5/26/2016	Final	5/26/2016	Comments will be addressed in the draft Watershed and Surface Water Quality Model Development and Calibration TM
2.7.1	Existing Hydraulic Model Assessment	Informational	Meeting Summary	Meeting Summary for Model Validation and Calibration Meeting 1/13/3015	1/20/2015	Final	1/20/2015	
2.7.1	Existing Hydraulic Model Assessment	Informational	Technical Memorandum Draft Outline	Watershed Collection System Hydraulic Models Gap Analysis and Update Assessment Draft Outline	2/10/2015	Comments Received	NA	Comments will be addressed in draft Tech Memo
2.7.1	Existing Hydraulic Model Assessment	Minor Submittal	Technical Memorandum	Hydraulic Model Validation Period Selection	2/27/2015	Final	2/27/2015	Comments will be addressed in Watershed Collection System Hydraulic Models Gap Analysis and Update Assessment TM. Approval to proceed with model validation received on 3/9/2015.
2.7.1	Existing Hydraulic Model Assessment	Informational	Meeting Summary	Meeting Summary for Model Calibration Meeting 3/9/2015	3/16/2015	Final	3/16/2015	
2.7.1	Existing Hydraulic Model Assessment	Major Submittal	Technical Memorandum	Watershed Collection System Hydraulic Models Gap Analysis and Update Assessment	4/20/2015	Final	8/24/2015	
2.7.2	Hydraulic Model Development	Major Submittal	Task Scope and Level of Effort	Hydraulic Model Development SOW/LOE - final	5/28/2015	Final	9/14/2015	
2.7.2	Hydraulic Model Development	Major Submittal	Task Scope and Level of Effort	Hydraulic Model Development SOW/LOE - Rev 1	12/17/2015	Final	12/17/2015	
2.7.2	Hydraulic Model Development	Major Submittal	Task Scope and Level of Effort	Hydraulic Model Development SOW/LOE - Rev 2	4/26/2016	Final	5/11/2016	
2.7.2	Hydraulic Model Development	Informational	Meeting Summary	Meeting Summary for Collection System Hydraulic Model Recalibration SOW/LOE 6/22/2015	7/7/2015	Final	7/7/2015	
2.7.2	Hydraulic Model Development	Informational	Meeting Summary	Meeting Summary for Hydraulic Model Pilot Metershed Review Meeting 3/14/2016	3/25/2016	Final	3/25/2016	
2.7.2	Hydraulic Model Development	Informational	Meeting Summary	Meeting Summary for Hydraulic Model Pilot Metershed Review Meeting 3/14/2016, Rev 1	6/10/2016	Final	6/10/2016	
2.7.2	Hydraulic Model Development	Informational	Informational Technical Memorandum	Hydraulic Model Calibration and Validation Criteria Comparison	3/25/2016	Final	3/25/2016	
2.7.2	Hydraulic Model Development	Informational	Informational Technical Memorandum	Hydraulic Model Calibration and Validation Criteria Comparison, Revision 1	6/10/2016	Final	6/10/2016	
2.7.2	Hydraulic Model Development	Informational	Meeting Summary	Meeting Summary for Hydraulic Model Calibration and Validation Meeting 4/28/216	5/10/2106	Final	5/10/2016	
2.7.3	<i>Flow Monitoring Data Collection Program (OPTIONAL TASK)</i>		<i>Task Scope and Level of Effort</i>	<i>Detailed scope of work and level of effort - if required</i>				
Task 3 - Identify Pollution Sources & Evaluate System Response								
3.1	Develop Evaluation Periods and Operational Strategy	Major Submittal	Technical Memorandum	SSO 700 IWAP Evaluation Tools Summary	4/7/2016	Draft		Comments have been received.
3.1	Develop Evaluation Periods and Operational Strategy	Informational	Meeting Summary	Meeting Summary for Task 3.1 Evaluation Tools Summary Meeting 6/23/2106	7/8/2016	Draft		
3.7	Identify Pollutants and Sources Causing Impairment	Major Submittal	Technical Memorandum	Characterization of Relative Impacts of Pollutant Sources on Water Quality				
Task 4 - Summary Report								
4	Summary report	Major Submittal	Report	IWAP Phase 1 Summary Report				

Activity ID	Activity Name	Remaining Duration	Start	Finish	2016				2017				2018				2019			
					Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1					
498759	SSO 700 Watershed Integrated Watershed Action Plan	779	05-May-16 A	11-Aug-18																
498759.2	Watershed and Source Characterization	84	05-May-16 A	15-Sep-16																
498759.2.6	Watershed Water Quality Model Development	84	05-May-16 A	15-Sep-16																
498759.2.6.2	Water Quality Model Development	84	05-May-16 A	15-Sep-16																
498759.2.6.2.4	Build WASP Surface Water Quality Model	84	05-May-16 A	15-Sep-16																
A5770	Calibrate WASP7 model using 2015 WQ data	50	05-May-16 A	12-Aug-16																
A5990	Validate WASP7 model	10	13-Aug-16	22-Aug-16																
A6710	Check Calibration/Validation with Hydraulic Model	24	23-Aug-16	15-Sep-16																
498759.3	Identify Pollution Sources and Evaluate System Response	65	16-Sep-16	19-Nov-16																
A3070	Prepare Models for Planning Period Evaluation	10	16-Sep-16	25-Sep-16																
A3120	Run models to characterize sources of each pollutant	45	26-Sep-16	09-Nov-16																
A3130	Summarize pollutant sources in tech memo and submit to MSDGC/County for review	10	10-Nov-16	19-Nov-16																
498759.5	Prepare Draft Integrated Watershed Action Plan	353	24-Aug-16	11-Aug-17																
A4550	Potential Projects Identification and Selection	202	24-Aug-16	13-Mar-17																
A4560	Cost Estimating	202	24-Aug-16	13-Mar-17																
A4570	Final Project Suite Selection	90	14-Mar-17	11-Jun-17																
A4580	Finalize Plan and Seek BOCC Approval	60	12-Jun-17	10-Aug-17																
A5410	Submittal to Regulators	1	11-Aug-17	11-Aug-17																
498759.6	Regulatory Review and Approval	365	12-Aug-17	11-Aug-18																
A5420	Regulatory Review and Approval	365	12-Aug-17	11-Aug-18																

█ Actual Work █ Critical Remaining Work ◆ Milestone
█ Remaining Work Primary Baseline ▶ Summary

TASK filter: Critical.



█ Actual Work █ Critical Remaining Work Summary
█ Remaining Work ◆ Milestone

Activity ID	Activity Name	Physical % Complete	Remaining Duration	Start	Finish	Predecessors	Total Float	2016						
								Jun	Jul	Aug	Sep	Oct		
498759 SSO 700 Watershed Integrated Watershed Action Plan														
498759.1 Project Administration														
498759.1.2 Project Meetings														
498759.1.2.1 Monthly Status Meetings														
498759.1.2.1.19 Jul 2016														
A6460	Meeting - Date TBD	0%	1	27-Jul-16*	27-Jul-16		726							
A6470	Prepare and Submit Meeting Summary	0%	7	28-Jul-16	03-Aug-16	A6460	726							
A6480	MSDGC/County Review Meeting Summary	0%	7	04-Aug-16	10-Aug-16	A6470	726							
A6490	Finish and Submit Meeting Summary	0%	5	11-Aug-16	15-Aug-16	A6480	726							
498759.1.2.1.20 Aug 2016														
A6500	Meeting - Date TBD	0%	1	31-Aug-16*	31-Aug-16		691							
A6510	Prepare and Submit Meeting Summary	0%	7	01-Sep-16	07-Sep-16	A6500	691							
A6520	MSDGC/County Review Meeting Summary	0%	7	08-Sep-16	14-Sep-16	A6510	691							
A6530	Finish and Submit Meeting Summary	0%	5	15-Sep-16	19-Sep-16	A6520	691							
498759.1.2.3 Stakeholder Steering Committee Meeting														
498759.1.2.3.7 Qtr 3 - 2016														
A6040	Meeting - Date TBD	0%	1	16-Aug-16*	16-Aug-16		699							
A6050	Prepare and Submit Meeting Summary	0%	7	17-Aug-16	23-Aug-16	A6040	706							
A6060	MSDGC/County Review Meeting Summary	0%	7	24-Aug-16	30-Aug-16	A6050	706							
A6070	Finish and Submit Meeting Summary	0%	5	31-Aug-16	04-Sep-16	A6060	706							
498759.1.2.4 Regulatory Meetings														
498759.1.2.4.7 Qtr 3 - 2016														
A6160	Meeting - Date TBD	0%	1	23-Aug-16	23-Aug-16	A6040	699							
A6170	Prepare and Submit Meeting Summary	0%	7	24-Aug-16	30-Aug-16	A6160	699							
A6180	MSDGC/County Review Meeting Summary	0%	7	31-Aug-16	06-Sep-16	A6170	699							
A6190	Finish and Submit Meeting Summary	0%	5	07-Sep-16	11-Sep-16	A6180	699							
498759.2 Watershed and Source Characterization														
498759.2.6 Watershed Water Quality Model Development														
498759.2.6.2 Water Quality Model Development														
498759.2.6.2.3 Expand and Update EFDC Surface Water Model														
A5980	Validate EFDC model	75%	13	17-Jun-16 A	27-Jul-16	A5720	16							
A6700	Check Calibration/Validation with Hydraulic Model	0%	24	19-Aug-16	11-Sep-16	A5910, A5980	4							
498759.2.6.2.4 Build WASP Surface Water Quality Model														
A5770	Calibrate WASP7 model using 2015 WQ data	45%	50	05-May-16 A	12-Aug-16	A5720, A5540, A	0							
A5760	Present model framework to MSDGC/County in monthly progress meeting	0%	1	12-Aug-16	12-Aug-16	A5750, A5770	729							
A5990	Validate WASP7 model	0%	10	13-Aug-16	22-Aug-16	A5770	0							
A6710	Check Calibration/Validation with Hydraulic Model	0%	24	23-Aug-16	15-Sep-16	A5990, A5910	0							
498759.2.6.2.5 Document Watershed and Surface Water Quality Modeling														
A5920	Prepare final draft TM describing all models and their calibrations	0%	45	30-Jul-16	12-Sep-16	A5990	677							
A5930	Submit final draft TM to MSDGC/County for review	0%	0		12-Sep-16	A5920	677							
A5940	Present TM to MSDGC/County in monthly progress meeting	0%	1	13-Sep-16	13-Sep-16	A5930	677							
A5950	MSDGC/County review of TM	0%	10	14-Sep-16	23-Sep-16	A5940	677							
498759.2.7 Watershed Hydraulic Model Development														
498759.2.7.2 Hydraulic Model Development														
498759.2.7.2.2 Model Updates and Calibration														
A5810	Calibrate model (including field verification of flooding manholes)	95%	25	15-Mar-16 A	18-Jul-16	A6250	4							
498759.2.7.2.3 Document Hydraulic Model Calibration														
A5820	Develop final draft of Hydraulic Model Calibration TM	20%	30	25-Mar-16 A	30-Aug-16	A5810, A5900	671							
A5830	Submit final draft of TM to MSDGC/County for review	0%	0		30-Aug-16	A5820	686							
A5840	Present TM to MSDGC/County in monthly progress meeting	0%	15	31-Aug-16	14-Sep-16	A5820	671							
A5850	MSDGC/County review of TM	0%	10	15-Sep-16	24-Sep-16	A5830, A5840	671							
498759.2.7.2.4 Run Re-calibrated Model for 2015 Water Quality Sampling Period														
A5880	Verify/Modify SSO 700 STF controls to correspond to 2015 operational strategy	80%	17	22-May-16 A	22-Jul-16	A5810	4							
A5890	Run Re-calibrated Model for 2015 Water Quality Sampling Period (June thru October)	0%	10	23-Jul-16	01-Aug-16	A5880, A5810	4							
A5900	Compare results to Telog and Flow Data	0%	15	02-Aug-16	16-Aug-16	A5890	4							
A5910	Export data and provide to WQ modeling team	0%	1	18-Aug-16	18-Aug-16	A5900	4							
498759.3 Identify Pollution Sources and Evaluate System Response														

█ Remaining Level of Effort █ Remaining Work ◆ Milestone
█ Actual Work █ Critical Remaining Work ▼ Summary

TASK filters: 90-Day Look Ahead, In Progress.
90-Day Look-ahead

Activity ID	Activity Name	Physical % Complete	Remaining Duration	Start	Finish	Predecessors	Total Float	2016						
								Jun	Jul	Aug	Sep	Oct		
A3060	Agree upon SSO 700 STF operational strategy	90%	22	28-Jan-16 A	23-Aug-16	A5900	718							
A3070	Prepare Models for Planning Period Evaluation	0%	10	16-Sep-16	25-Sep-16	A6700, A6710	0							
498759.5	Prepare Draft Integrated Watershed Action Plan		202	24-Aug-16	13-Mar-17		0							
A4550	Potential Projects Identification and Selection	0%	202	24-Aug-16	13-Mar-17	A3130, A5990	0							
A4560	Cost Estimating	0%	202	24-Aug-16	13-Mar-17	A4550, A5770	0							

▬ Remaining Level of Effort
 ▬ Remaining Work
 ◆ Milestone
▬ Actual Work
 ▬ Critical Remaining Work
 ▼ Summary

Activity ID	Activity Name	Physical % Complete	Remaining Duration	Start	Finish	Predecessors	Total Float	2015												2016												2017												2018											
								D	J	F	M	A	M	J	Jul	A	S	O	N	D	D	J	F	M	A	M	J	Jul	A	S	O	N	D	D	J	F	M	A	M	J	Jul	A	S	O	N	D	D	J	F	M	A	M	J	Jul	A
498759	SSO 700 Watershed Integrated Watershed Action Plan		779	09-Dec-14 A	11-Aug-18		0																																																
498759.1	Project Administration		174	09-Dec-14 A	16-Jan-17		572																																																
498759.1.1	Project Management		0	18-Dec-14 A	03-Apr-15 A																																																		
A1000	Develop and Submit Project Management Plan	100%	0	18-Dec-14 A	05-Mar-15 A	A1030, A1060, A																																																	
A1010	MSDGC/County Review of PMP	100%	0	05-Mar-15 A	16-Mar-15 A	A1000																																																	
A1020	Finish and Submit PMP	100%	0	17-Mar-15 A	03-Apr-15 A	A1010, A1050, A																																																	
498759.1.2	Project Meetings		174	09-Dec-14 A	16-Jan-17		572																																																
498759.1.2.0	Kickoff Meeting		0	09-Dec-14 A	05-Jan-15 A																																																		
A1100	Kickoff Meeting	100%	0	09-Dec-14 A	09-Dec-14 A																																																		
A1110	Prepare and Submit Meeting Summary	100%	0	18-Dec-14 A	24-Dec-14 A	A1100																																																	
A1120	MSDGC/County Review Meeting Summary	100%	0	25-Dec-14 A	31-Dec-14 A	A1110																																																	
A1130	Finish and Submit Meeting Summary	100%	0	01-Jan-15 A	05-Jan-15 A	A1120																																																	
498759.1.2.1	Monthly Status Meetings		174	19-Feb-15 A	16-Jan-17		572																																																
498759.1.2.1.2	Feb 2015		0	19-Feb-15 A	06-Mar-15 A																																																		
A4070	Meeting	100%	0	19-Feb-15 A	19-Feb-15 A																																																		
A4080	Prepare and Submit Meeting Summary	100%	0	20-Feb-15 A	24-Feb-15 A	A4070																																																	
A4090	MSDGC/County Review Meeting Summary	100%	0	24-Feb-15 A	06-Mar-15 A	A4080																																																	
A4100	Finish and Submit Meeting Summary	100%	0	06-Mar-15 A	06-Mar-15 A	A4090																																																	
498759.1.2.1.3	Mar 2015		0	19-Mar-15 A	07-Apr-15 A																																																		
A4110	Meeting	100%	0	19-Mar-15 A	19-Mar-15 A																																																		
A4120	Prepare and Submit Meeting Summary	100%	0	20-Mar-15 A	26-Mar-15 A	A4110																																																	
A4130	MSDGC/County Review Meeting Summary	100%	0	27-Mar-15 A	02-Apr-15 A	A4120																																																	
A4140	Finish and Submit Meeting Summary	100%	0	03-Apr-15 A	07-Apr-15 A	A4130																																																	
498759.1.2.1.4	Apr 2015		0	27-Apr-15 A	17-May-15 A																																																		
A4150	Meeting	100%	0	27-Apr-15 A	27-Apr-15 A																																																		
A4160	Prepare and Submit Meeting Summary	100%	0	28-Apr-15 A	06-May-15 A	A4150																																																	
A4170	MSDGC/County Review Meeting Summary	100%	0	06-May-15 A	12-May-15 A	A4160																																																	
A4180	Finish and Submit Meeting Summary	100%	0	13-May-15 A	17-May-15 A	A4170																																																	
498759.1.2.1.6	June 2015		0	15-Jun-15 A	28-Jul-15 A																																																		
A4230	Meeting	100%	0	15-Jun-15 A	15-Jun-15 A																																																		
A4240	Prepare and Submit Meeting Summary	100%	0	16-Jun-15 A	16-Jul-15 A	A4230																																																	
A4250	MSDGC/County Review Meeting Summary	100%	0	17-Jul-15 A	23-Jul-15 A	A4240																																																	
A4260	Finish and Submit Meeting Summary	100%	0	24-Jul-15 A	28-Jul-15 A	A4250																																																	
498759.1.2.1.9	Sep 2015		0	14-Sep-15 A	04-Oct-15 A																																																		
A4350	Meeting	100%	0	14-Sep-15 A	14-Sep-15 A																																																		
A4360	Prepare and Submit Meeting Summary	100%	0	15-Sep-15 A	22-Sep-15 A	A4350																																																	
A4370	MSDGC/County Review Meeting Summary	100%	0	23-Sep-15 A	29-Sep-15 A	A4360																																																	
A4380	Finish and Submit Meeting Summary	100%	0	30-Sep-15 A	04-Oct-15 A	A4370																																																	
498759.1.2.1.12	Dec 2015		0	17-Dec-15 A	16-Jan-16 A																																																		
A4470	Meeting	100%	0	17-Dec-15 A	17-Dec-15 A																																																		
A4480	Prepare and Submit Meeting Summary	100%	0	18-Dec-15 A	04-Jan-16 A	A4470																																																	
A4490	MSDGC/County Review Meeting Summary	100%	0	05-Jan-16 A	11-Jan-16 A	A4480																																																	
A4500	Finish and Submit Meeting Summary	100%	0	12-Jan-16 A	16-Jan-16 A	A4490																																																	
498759.1.2.1.13	Jan 2016		0	28-Jan-16 A	15-Feb-16 A																																																		
A4510	Meeting	100%	0	28-Jan-16 A	28-Jan-16 A																																																		
A4520	Prepare and Submit Meeting Summary	100%	0	29-Jan-16 A	04-Feb-16 A	A4510																																																	
A4530	MSDGC/County Review Meeting Summary	100%	0	05-Feb-16 A	10-Feb-16 A	A4520																																																	
A4540	Finish and Submit Meeting Summary	100%	0	11-Feb-16 A	15-Feb-16 A	A4530																																																	
498759.1.2.1.15	Mar 2016		0	14-Mar-16 A	29-Mar-16 A																																																		
A6300	Meeting	100%	0	14-Mar-16 A	14-Mar-16 A																																																		
A6310	Prepare and Submit Meeting Summary	100%	0	15-Mar-16 A	17-Mar-16 A	A6300																																																	
A6320	MSDGC/County Review Meeting Summary	100%	0	18-Mar-16 A	28-Mar-16 A	A6310																																																	
A6330	Finish and Submit Meeting Summary	100%	0	25-Mar-16 A	29-Mar-16 A	A6320																																																	
498759.1.2.1.16	Apr 2016		0	18-Apr-16 A	24-May-16 A																																																		

█ Remaining Level of Effort
 █ Remaining Work
 █ Critical Remaining Work
 ◆ Milestone
 ⇨ Summary

TASK filter: All Activities
WBS-Phase1 Focused

Activity ID	Activity Name	Physical % Complete	Remaining Duration	Start	Finish	Predecessors	Total Float	2015												2016												2017												2018											
								D	J	F	M	A	M	J	Jul	A	S	O	N	D	D	J	F	M	A	M	J	Jul	A	S	O	N	D	D	J	F	M	A	M	J	Jul	A	S	O	N	D	D	J	F	M	A	M	J	Jul	A
498759.2	Watershed and Source Characterization		108	09-Dec-14 A	09-Oct-16		671	498759.2 Watershed and Source Characterization																																															
498759.2.1	Watershed Selection and Delineation		0	12-Jan-15 A	09-Mar-15 A			498759.2.1 Watershed Selection and Delineation																																															
A2000	Develop and Submit GIS File of Study Area Boundary	100%	0	12-Jan-15 A	30-Jan-15 A	A2040		Develop and Submit GIS File of Study Area Boundary																																															
A2010	MSDGC/County Review of Study Area Boundary	100%	0	30-Jan-15 A	24-Feb-15 A	A2000		MSDGC/County Review of Study Area Boundary																																															
A2020	Finish and Submit Study Area Boundary	100%	0	24-Feb-15 A	09-Mar-15 A	A2010		Finish and Submit Study Area Boundary																																															
498759.2.2	Data Collection		0	09-Dec-14 A	27-Feb-15 A			498759.2.2 Data Collection																																															
A2030	Develop and Submit Data Request Memo	100%	0	09-Dec-14 A	12-Dec-14 A			Develop and Submit Data Request Memo																																															
A2040	Receive Requested Data from MSDGC	100%	0	13-Dec-14 A	26-Jan-15 A	A2030		Receive Requested Data from MSDGC																																															
A2050	Develop SP Library of Received Data	100%	0	27-Jan-15 A	27-Feb-15 A	A2040		Develop SP Library of Received Data																																															
498759.2.3	Site Visits		0	11-Mar-15 A	07-Jul-15 A			498759.2.3 Site Visits																																															
A2060	Visit Watershed Area and Submit Technical Memo	100%	0	11-Mar-15 A	13-May-15 A			Visit Watershed Area and Submit Technical Memo																																															
A5310	MSDGC/County Review of Watershed Conditions TM	100%	0	14-May-15 A	15-Jun-15 A	A2060		MSDGC/County Review of Watershed Conditions TM																																															
A5320	Finish and Submit Watershed Conditions TM	100%	0	16-Jun-15 A	07-Jul-15 A	A5310		Finish and Submit Watershed Conditions TM																																															
498759.2.4	Inventory and Gap Analysis		0	18-Feb-15 A	23-Nov-15 A			498759.2.4 Inventory and Gap Analysis																																															
A2070	Develop and Submit Data Inventory TM	100%	0	18-Feb-15 A	28-Aug-15 A	A2000, A2040		Develop and Submit Data Inventory TM																																															
A2080	MSDGC/County Review of Data Inventory TM	100%	0	09-Mar-15 A	14-Sep-15 A	A2070		MSDGC/County Review of Data Inventory TM																																															
A2090	Finish and Submit Data Inventory TM	100%	0	15-Sep-15 A	23-Nov-15 A	A2080		Finish and Submit Data Inventory TM																																															
498759.2.5	Water Quality Data Collection Program		0	20-Mar-15 A	09-May-16 A			498759.2.5 Water Quality Data Collection Program																																															
A2100	Develop and Submit WQ Data Collection Program Scope and LOE	100%	0	20-Mar-15 A	17-Apr-15 A	A2130		Develop and Submit WQ Data Collection Program Scope and LOE																																															
A2110	MSDGC/County Authorize WQ data Collection Program	100%	0	18-Apr-15 A	04-Jun-15 A	A2100		MSDGC/County Authorize WQ data Collection Program																																															
A5435	Dry Weather Event #1	100%	0	26-Jun-15 A	30-Jun-15 A			Dry Weather Event #1																																															
A2265	Flow Characterization	100%	0	01-Aug-15 A	18-Nov-15 A			Flow Characterization																																															
A2255	Wet Weather Event #1	100%	0	06-Aug-15 A	07-Aug-15 A			Wet Weather Event #1																																															
A5445	Dry Weather Event #2	100%	0	24-Aug-15 A	28-Aug-15 A			Dry Weather Event #2																																															
A5665	Wet Weather Event #2	100%	0	29-Sep-15 A	30-Sep-15 A			Wet Weather Event #2																																															
A5455	Dry weather Event #3	100%	0	05-Oct-15 A	09-Oct-15 A			Dry weather Event #3																																															
A5470	Wet Weather Event #3	100%	0	27-Oct-15 A	28-Oct-15 A	A5665		Wet Weather Event #3																																															
A5480	Wet Weather Event #4	100%	0	06-Nov-15 A	07-Nov-15 A	A5470		Wet Weather Event #4																																															
A2330	Prepare Sampling Program Summary	100%	0	18-Dec-15 A	25-Jan-16 A	A2265, A5455		Prepare Sampling Program Summary																																															
A2275	Submit final draft of Sampling Program Summary TM to MSDGC/County	100%	0	25-Jan-16 A	25-Jan-16 A	A2330		Submit final draft of Sampling Program Summary TM to MSDGC/County																																															
A2290	Present Findings of TM to MSDGC/County in monthly progress meeting	100%	0	28-Jan-16 A	28-Jan-16 A	A2275		Present Findings of TM to MSDGC/County in monthly progress meeting																																															
A2300	MSDGC/County review of TM	100%	0	29-Jan-16 A	29-Feb-16 A	A2290, A2275		MSDGC/County review of TM																																															
A2310	Revise per Comments received	100%	0	01-Mar-16 A	09-May-16 A	A2300		Revise per Comments received																																															
A2320	Submit Final Sampling Program Summary TM	100%	0	09-May-16 A	09-May-16 A	A2310		Submit Final Sampling Program Summary TM																																															
498759.2.6	Watershed Water Quality Model Development		102	23-Jan-15 A	03-Oct-16		677	498759.2.6 Watershed Water Quality Model Development																																															
A2125	Receive Water Quality Data from MSDGC	100%	0	23-Jan-15 A	06-Feb-15 A			Receive Water Quality Data from MSDGC																																															
A2130	Develop and Submit Draft WQ Model Assessment TM	100%	0	07-Feb-15 A	12-Mar-15 A	A2125, A2040		Develop and Submit Draft WQ Model Assessment TM																																															
A2135	Develop and Submit Final Draft WQ Model Assessment TM	100%	0	12-Mar-15 A	12-Mar-15 A	A2130, A4590		Develop and Submit Final Draft WQ Model Assessment TM																																															
A2160	Submit WQ Model Update Plan and LOE	100%	0	20-Mar-15 A	17-Apr-15 A	A2130		Submit WQ Model Update Plan and LOE																																															
A2140	MSDGC/County Review of WQ Model Assessment TM	100%	0	24-Apr-15 A	08-May-15 A	A2130, A2135		MSDGC/County Review of WQ Model Assessment TM																																															
A2170	MSDGC/County Approve WQ Model Plan	100%	0	24-Apr-15 A	15-Jun-15 A	A2160		MSDGC/County Approve WQ Model Plan																																															
A2150	Finish and Submit WQ Model Assessment TM	100%	0	09-May-15 A	18-May-15 A	A2140		Finish and Submit WQ Model Assessment TM																																															
498759.2.6.2	Water Quality Model Development		102	15-Jul-15 A	03-Oct-16		677	498759.2.6.2 Water Quality Model Development																																															
498759.2.6.2.1	Update Headwater Flow and Load Calculations		0	23-Jan-16 A	02-May-16 A			498759.2.6.2.1 Update Headwater Flow and Load Calculations																																															
A5500	Headwater Flow Re-calculation	100%	0	23-Jan-16 A	08-Feb-16 A			Headwater Flow Re-calculation																																															
A5510	Compile/analyze historical water quality data at boundary	100%	0	23-Jan-16 A	08-Feb-16 A	A5500		Compile/analyze historical water quality data at boundary																																															
A5520	Compile/analyze new (2015) water quality data at boundary	100%	0	08-Feb-16 A	19-Mar-16 A	A5510		Compile/analyze new (2015) water quality data at boundary																																															
A5530	Statistically derive concentrations of Conservative Substances	100%	0	22-Feb-16 A	02-May-16 A	A5510, A5520		Statistically derive concentrations of Conservative Substances																																															
A5540	Statistically derive concentrations of Remaining Substances	100%	0	22-Feb-16 A	02-May-16 A	A5510, A5520, A		Statistically derive concentrations of Remaining Substances																																															
498759.2.6.2.2	Build Stormwater and Non-point Source Watershed Model		0	15-Jul-15 A	19-May-16 A			498759.2.6.2.2 Build Stormwater and Non-point Source Watershed Model																																															
A5550	Delineate model subcatchments	100%	0	15-Jul-15 A	13-Aug-15 A			Delineate model subcatchments																																															
A5560	Prepare a description of the recommended delineation of the subcatchments and their linkages to surface water models	100%	0	13-Aug-15 A	04-Sep-15 A	A5550		Prepare a description of the recommended delineation of the subcatchments and their linkages to surface water models																																															
A5570	Submit description in informational TM to MSDGC/County	100%	0	04-Sep-15 A	04-Sep-15 A	A5560		Submit description in informational TM to MSDGC/County																																															
A5580	Present model framework to MSDGC/County in monthly progress meeting	100%	0	17-Dec-15 A	17-Dec-15 A	A5570		Present model framework to MSDGC/County in monthly progress meeting																																															

█ Remaining Level of Effort
 █ Remaining Work
 █ Critical Remaining Work
 ◆ Milestone
 ⇨ Summary

TASK filter: All Activities
WBS-Phase1 Focused

