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July 22, 2015

Mr. Ryan Raab, Natural Resources Program Specialist
Bureau of Watershed Management – WT/3
Wisconsin Department of Natural Resources
PO Box 7921
Madison, WI 53707-7921

RE: Progress Report and Billing: July 1, 2014 – June 30, 2015
2014-2015 CARPC Water Quality Planning Work Program

Dear Mr. Raab:

Enclosed is a progress report, by each quarter, covering the period from July 1, 2014 through June 30, 2015. The progress report indicates the status and progress on developing the work products for our 2014-2015 work program and contract as of the end of the reporting period and the contract period. The contract was finalized in May 2015, a month before the end of the performance period. However, based on our good faith work continuation understanding, we undertook the activities proposed in the work program during the entire twelve month program period.

If you have any questions or need additional information, please contact me at 266-9283.

Sincerely,

Kamran Mesbah, PE, AICP
Deputy Director, and Director of Environmental Resources Planning

cc/encl: Lisa Helmuth, WDNR – WT/3
Josie Lathrop, WDNR

Quarterly Progress Report
2014-2015 Water Quality Planning Work Program
Capital Area Regional Planning Commission
July 1, 2014 – September 30, 2014

Work Element 3141: Wastewater Systems Planning

Review of proposed WPDES permits for the City of Stoughton WWTP, the Village of Oregon WWTP and the Short Duration Discharge General Permit.

Reviewed proposed Lower Badger Mill Creek Interceptor plans for the City of Madison.

Continuing work on updating Appendix C of the Water Quality Plan. The DOA released 2040 county population projections in March 2014, much later than expected, delaying the preparation of service area level population and employment projections necessary for the evaluation of treatment capacity and needs assessment for wastewater treatment facilities in the region.

Continue to serve on technical advisory committee for MMSD.

Work Element 3142: Wastewater Systems Service

Reviewed fourteen (31) sewer extensions for consistency with the *Dane County Water Quality Plan* and its conditions of approval during the period (20 CUSA; 11 OUSA).

Responded to requests for information related to the sewer extension review and approval process.

Work Element 3143: Urban Service Area Planning and Environmental Corridor Delineation

Continued work on amendments to the Dane County Water Quality Plan to change sewer service area boundaries in the City of Fitchburg, the City of Madison, the City of Middleton and the Village of Cambridge.

Completed urban service area amendments for the Schewe road area in the City of Madison (CUSA; CARPC Resolution 2014-13), and the Vineyards of Cambridge (CARPC Resolution 2014-12) in the Village of Cambridge, and submitted packet to DNR.

Responded to requests for information related to environmental corridor delineation and mapping in the Village of DeForest the Town of Windsor, the City of Fitchburg and the City of Madison.

Continued work on updating the Environmental Corridors Report, an Appendix to the *Dane County Water Quality Plan*.

Work continued on Farmland Loss Mitigation to develop recommendations for the Commission on policies and potential approaches to integrating some aspects of farmland preservation and related ecological services into the water quality plan. Draft report is being readied for peer review.

Met with applicants concerning urban service area issues for the North East Neighborhood (Fitchburg), Blumquist Parcel (Pioneer Neighborhood, City of Madison), and with Clean Lakes Alliance staff (concerning Fitchburg's North east Neighborhood).

Continued participation in the Madison Beltline Technical Advisory Committee meetings.

Work Element 3151: Urban Nonpoint Source Management

Reviewed Stormwater Management Plans for Linden Park, Royster Commons, Silicon Prairie Apartments at Oak Crossing, Promega in Fitchburg, Techlands in Fitchburg, North Park in Fitchburg, Hawk's Crossing in the City of Madison and Grandview in the City of Madison.

Met with applicants on stormwater management issues for Bliefernicht and Windsor Crossing developments (Town of Windsor).

Met with staff of Yahara 2070 project.

Participated in a USGS webinar on dissolved pollutants.

Continued participation in the Clean Lakes Alliance Community Board.

Work Element 3154: Wetland Protection Planning

Worked on developing a framework for wetland quality assessment.

Work Element 3155: Groundwater Protection Planning

Work continued finalizing the draft Groundwater Protection Plan, Appendix G of the *Dane County Water Quality Plan*. Draft plan has been completed for internal review and subsequent release for external review and comments.

5-, 50-, and 100-year Zones of Contribution have been modeled and mapped for existing and planned municipal wells in Dane Co. using 2035 projected pumping rates and results provided to WDNR Groundwater Section staff.

Related Water Quality Planning Activities

The work related to the HUD Sustainable Communities Planning Grant has been completed and has transitioned into the local implementation phase. The work on preparing "environmental conditions reports" (ECRs) for each urban service area will continue in this phase. These reports outline the natural resources and related vulnerabilities and susceptibilities, and will use this information as part of local comprehensive planning and scenario planning to direct urban growth away from sensitive natural and habitat resources.

Conducted groundwater modeling and mapping for the Morrisonville Sanitary District.

Responded to requests for information and investigated issues related to wetland resources protection, water quality, groundwater management, stormwater management, habitat assessment, and stream restoration.

Continued participation in the Clean Lakes Alliance Community Board.

Table 1

**July 2014 – September 2014 CARPC Water Quality Planning Work Program
Work Element Product Summary**

Estimated Work Products Per 2014-2015 Contract	Work Products for Quarter of 7/1/14 – 9/30/14	Total Work Products by the end of the reporting period (7/1/14 – 9/30/14)
Work Element 3141		
1. Assistance and review comments on facilities plans.	None this quarter	none
2. Review comments on WPDES permits.	Comment letter for City of Stoughton WWTP, Village of Oregon WWTP, and the Short Duration Discharge General Permit.	Review of proposed WPDES permits for the City of Stoughton WWTP, Village of Oregon WWTP, and the Short Duration Discharge General Permit.
3. Written comments and testimony on MMSD annexations.	None this quarter	None this quarter
4. CMAR report analysis, archiving, and special point source studies.	Awaiting CMAR reports	Awaiting CMAR reports
5. Adoption of the <i>Point Source Inventory and Analysis</i> Appendix C of Dane County Water Quality Plan.	The work on the update of the <i>Point Source Inventory and Analysis</i> Appendix C of Dane County Water Quality Plan was delayed because DOA population projections for Dane County were not available until March 2014. We are working on population and employment projections and land demand for individual service areas.	Work is being done is preparing population and employment projection methodology based on countywide official DOA population projections.
6. Quarterly progress reports and record of meetings attended and assistance provided.	Progress report	Progress report
Work Element 3142		
1. 80 Sewer extension review letters.	Thirty one sewer extensions (20 CUSA; 11 OUSA)	Thirty one sewer extensions (20 CUSA; 11 OUSA)
2. Review comments or hearing testimony on point source legislation/rules.	None this quarter	None this contract period
3. Quarterly progress reports.	Progress report	Progress report
Work Element 3143		

Estimated Work Products Per 2014-2015 Contract	Work Products for Quarter of 7/1/14 – 9/30/14	Total Work Products by the end of the reporting period (7/1/14 – 9/30/14)
<p>1. Analysis and evaluation reports, record of public hearing and actions on 12 (est.) service area or major environmental corridor amendments.</p>	<p>Continued work on amendments in the City of Fitchburg, the City of Middleton, the Village of Cambridge, and the City of Madison.</p> <p>Responded to requests for information related to environmental corridor delineation and mapping in the Village of DeForest the Town of Windsor, the City of Fitchburg and the City of Madison. Met with applicants concerning urban service area issues for the North East Neighborhood (Fitchburg), Blumquist Parcel (Pioneer Neighborhood, City of Madison), and with Clean Lakes Alliance staff (concerning Fitchburg's North east Neighborhood).</p>	<p>Completed work on Madison CUSA Amendment (Old Sauk Road and Schewe Road), the Dane USA amendment and the Vineyards of Cambridge USA amendment in the Village of Cambridge. Submitted the Village of Waunakee, and the Town of Westport USA amendments. Completed Staff analysis of CUSA North East Neighborhood and North Stoner Prairie amendments in Fitchburg. Continued work on Public hearings in the City of Fitchburg.</p> <p>Responded to requests for information related to environmental corridor delineation and mapping in the Village of DeForest the Town of Windsor, the City of Fitchburg and the City of Madison. Met with applicants concerning urban service area issues for the North East Neighborhood (Fitchburg), Blumquist Parcel (Pioneer Neighborhood, City of Madison), and with Clean Lakes Alliance staff (concerning Fitchburg's North east Neighborhood).</p>
<p>2. Post digital USA boundary and environmental corridor maps on the CARPC website.</p>	<p>Current website is maintained with current data and information.</p>	<p>Current website is maintained with current data and information.</p>
<p>3. Record of assistance provided and meetings attended.</p>	<p>Met with landowners and representatives from the Village of Cambridge, the City of Madison, and the City of Fitchburg on urban service area amendments in these communities.</p> <p>Met with staff from the Clean Lakes Alliance regarding the Fitchburg NEN amendment.</p> <p>Responded to requests for information related to environmental corridor delineation and mapping in the Village of DeForest the town of Windsor , the city of Madison and the City of Fitchburg.</p>	<p>Met with landowners and representatives from the Village of Cambridge, the City of Madison, and the City of Fitchburg on urban service area amendments in these communities.</p> <p>Met with staff from the Clean Lakes Alliance regarding the Fitchburg NEN amendment.</p> <p>Responded to requests for information related to environmental corridor delineation and mapping in the Village of DeForest the town of Windsor , the city of Madison and the City of Fitchburg.</p>
<p>4. Adoption of the <i>Environmental Corridors</i> Report</p>	<p>Continued drafting an update of the report.</p>	<p>Continued drafting an update of the report.</p>
<p>5. Quarterly progress reports.</p>	<p>Progress report</p>	<p>Progress report</p>

Work Element 3151

Estimated Work Products Per 2014-2015 Contract	Work Products for Quarter of 7/1/14 – 9/30/14	Total Work Products by the end of the reporting period (7/1/14 – 9/30/14)
1. Record of assistance provided and meetings attended.	Reviewed Stormwater Management Plans for Linden Park, Royster Commons, Silicon Prairie Apartments at Oak Crossing; Promega, North Park, and Techlands (Fitchburg); Hawk's Crossing and Grandview in the City of Madison Met with applicants on stormwater management issues for Blieferticht and Windsor Crossing developments (T. Windsor)	Reviewed Stormwater Management Plans for Linden Park, Royster Commons, Silicon Prairie Apartments at Oak Crossing; Promega, North Park, and Techlands (Fitchburg); Hawk's Crossing and Grandview in the City of Madison Met with applicants on stormwater management issues for Blieferticht and Windsor Crossing developments (T. Windsor)
2. Quarterly reports.	Progress report.	Progress report.
Work Element 3154		
1. Methodology and assessment of wetland habitat quality and restoration potential.	Research work is continuing in this evaluation.	Research work is continuing in this evaluation.
2. Quarterly reports.	Progress report.	Progress report.
Work Element 3155		
1. Completed update of the <i>Groundwater Protection Plan</i> Appendix G of Dane County Water Quality Plan.	Continued work on updating Appendix G of the <i>Dane County Water Quality Plan</i> . Draft plan completed for internal review and subsequent release for external review and comments.	Continued work on updating Appendix G of the <i>Dane County Water Quality Plan</i> . Draft plan completed for internal review and subsequent release for external review and comments.
2. Evaluation of public water systems based on the updated Regional Groundwater Model.	5-, 50-, and 100-year Zones of Contribution have been modeled and mapped for existing and planned municipal wells in Dane Co. using 2035 projected pumping rates. Results provided to WDNR Groundwater Section staff.	5-, 50-, and 100-year Zones of Contribution have been modeled and mapped for existing and planned municipal wells in Dane Co. using 2035 projected pumping rates. Results provided to WDNR Groundwater Section staff.
2. Quarterly reports.	Progress report.	Progress report.

Quarterly Progress Report
2014-2015 Water Quality Planning Work Program
Capital Area Regional Planning Commission
October 1, 2014 – December 31, 2014

Work Element 3141: Wastewater Systems Planning

Review of proposed WPDES permits for the Cross Plains Dewatering project, Dane County Regional Airport, Don's Mobile Manor WWTF and a revised Madison Gas & Electric Compensatory Recharge.

Reviewed, and issued consistency letter for three (3) MMSD annexations: two in Cottage Grove, and one in Madison (Boehm Parcel).

Continuing work on updating Appendix C of the Water Quality Plan. The DOA released 2040 county population projections in March 2014, much later than expected, delaying the preparation of service area level population and employment projections necessary for the evaluation of treatment capacity and needs assessment for wastewater treatment facilities in the region.

Continued to serve on technical advisory committee for MMSD.

Work Element 3142: Wastewater Systems Service

Reviewed seven (7) sewer extensions for consistency with the *Dane County Water Quality Plan* and its conditions of approval during the period (3 CUSA; 4 OUSA).

Responded to requests for information related to the sewer extension review and approval process.

Work Element 3143: Urban Service Area Planning and Environmental Corridor Delineation

Completed work on amendments to the Dane County Water Quality Plan to change sewer service area boundaries in the City of Fitchburg Northeast Neighborhood, The City of Fitchburg North Stoner Prairie, The City of Madison Schewe Road, the Village of Cambridge- The Vineyards of Cambridge.

Responded to requests for information related to environmental corridor delineation and mapping in the City of Madison and the City of Middleton, the Carriage Ridge Subdivision in Waunakee, and Fox Hill in the Village of Deforest

Continued work on updating the Environmental Corridors Report, an Appendix to the *Dane County Water Quality Plan*.

Work continued on Farmland Loss Mitigation to develop recommendations for the Commission on policies and potential approaches to integrating some aspects of farmland preservation and related ecological services into the water quality plan. Draft report is being readied for peer review.

Work Element 3151: Urban Nonpoint Source Management

Reviewed Stormwater Management Plans for Kettle Park West in the City of Stoughton, Inspiration Point at Swan Creek in the City of Fitchburg, The Vineyards at Cambridge in the Village of Cambridge, Juniper Ridge Subdivision in McFarland.

Met with applicants regarding stormwater management issues for the Juniper Ridge development (McFarland), and Kettle Park in Stoughton (2 meetings).

Participated in a green infrastructure webinar.

Work Element 3154: Wetland Protection Planning

Initiated work compiling necessary information and materials in the development of a Wetland Protection Framework for the Capital Region.

Work Element 3155: Groundwater Protection Planning

Work continued finalizing the draft Groundwater Protection Plan, Appendix G of the *Dane County Water Quality Plan*. The draft plan has been completed for internal review, with preliminary comments addressed. Additional work will be needed to update future water use projections and subsequent modeling results and mapping based on revised future population estimates (pending), prior to release for external review and comments.

Provided review and comments on the draft products from the Wisconsin Geological and Natural History Survey associated with the Regional Groundwater Model Update project.

Related Water Quality Planning Activities

Conducted groundwater mapping for the Village of Cross Plains associated with its wellhead protection plan.

Provided assistance to WDNR and UW researchers characterizing the sources of elevated groundwater nitrates in Dane County.

Participated in a work session involving knowledgeable invitees to provide comments on the four future scenarios developed as part of the Yahara 2070 project under the UW Water Sustainability and Climate initiative.

Finalized the *Surface Water Quality Conditions* report, Appendix B of the *Dane County Water Quality Plan* and provided widespread community distribution

Responded to requests for information and investigated issues related to wetland resources protection, water quality, groundwater management, stormwater management, habitat assessment, and stream restoration.

Continued participation in the Clean Lakes Alliance Community Board.

Continued participation in the WDNR Brownfields semi-annual conference calls.

Table 1

**October 2014 – December 2014 CARPC Water Quality Planning Work Program
Work Element Product Summary**

Estimated Work Products Per 2014-2015 Contract	Work Products for Quarter of 10/1/14 – 12/31/14	Total Work Products by the end of the reporting period (7/1/14 – 12/31/14)
Work Element 3141		
1. Assistance and review comments on facilities plans.	None this quarter	None
2. Review comments on WPDES permits.	Review of proposed WPDES permits for the Don's Mobile Manor WWTP , Revised Madison Gas & Electric Compensatory Recharge, Cross Plainses Dewatering Project, and Dane County Airport	Review of proposed WPDES permits for Consolidated Koshkonong S.D., Cambridge Oakland Joint S.D., Village of Rockdale WWTP, City of Sun Prairie WWTP, V. of Deerfield WWTP, Roxbury S.D., Village of Marshall WWTP, MG&E Compensatory Recharge, Wagner Dairy Farm, Capitol Sand and Gravel Co., Statz Brothers Inc., and Fish, Crystal and Mud Lake Rehabilitation District, Don's Mobile Manor WWTP , Revised Madison Gas & Electric Compensatory Recharge, Cross Plainses Dewatering Project, and Dane County Airport.
3. Written comments and testimony on MMSD annexations.	Cottage Grove UW Heath, Cottage Grove Wildwood Clinic, Madison Boehm Property.	Four letters (Madison Watermark-Midtown Road, Cottage Grove UW Heath, Cottage Grove Wildwood Clinic, Madison Boehm Property)
4. CMAR report analysis, archiving, and special point source studies.	Work complete.	All CMARs have been collected and analyzed as part of the update of Appendix C of the Water quality Plan
5. Adoption of the <i>Point Source Inventory and Analysis</i> Appendix C of Dane County Water Quality Plan.	The work on the update of the <i>Point Source Inventory and Analysis</i> Appendix C of Dane County Water Quality Plan was delayed because DOA population projections for Dane County were not available until March 2014. We are working on population and employment projections and land demand for individual service areas.	Work is being done is preparing population and employment projection methodology.
6. Quarterly progress reports and record of meetings attended and assistance provided.	Progress report	Progress report
Work Element 3142		
1. 80 Sewer extension review letters.	Six sewer extensions (3 CUSA; 4 OUSA)	38 sewer extensions (23 CUSA; 15 OUSA)
2. Review comments or hearing testimony on point source legislation/rules.	None this quarter	None this contract period
3. Quarterly progress reports.	Progress report	Progress report
Work Element 3143		

Estimated Work Products Per 2014-2015 Contract	Work Products for Quarter of 10/1/14 – 12/31/14	Total Work Products by the end of the reporting period (7/1/14 – 12/31/14)
1. Analysis and evaluation reports, record of public hearing and actions on 12 (est.) service area or major environmental corridor amendments.	Finished work on amendments in the City of Fitchburg, The Village of Waunakee, the Town of Westport.	Completed work on the Village of Waunakee, the town of Westport, Madison CUSA Amendment (Schewe Road), the Village of Cambridge, the City of Fitchburg North Stoner Prairie, the City of Fitchburg Northeast Neighborhood .
2. Post digital USA boundary and environmental corridor maps on the CARPC website.	Current website is maintained with current data and information.	Current website is maintained with current data and information.
3. Record of assistance provided and meetings attended.	Responded to requests for information related to environmental corridor delineation and mapping in the City of Madison and the City of Middleton, the Carriage Ridge Subdivision in Waunakee, and Fox Hill in the Village of Deforest	<p>Completed work on Madison CUSA Amendment (Old Sauk Road and Schewe Road), the Dane USA amendment and the Vineyards of Cambridge USA amendment in the Village of Cambridge. Submitted the Village of Waunakee, and the Town of Westport USA amendments. Completed Staff analysis of CUSA North East Neighborhood and North Stoner Prairie amendments in Fitchburg. Continued work on Public hearings in the City of Fitchburg.</p> <p>Responded to requests for information related to environmental corridor delineation and mapping in the Village of DeForest the Town of Windsor, the City of Fitchburg and the City of Madison (2), the City of Middleton, Carriage Ridge development in Waunakee, and Fox Hill development in DeForest.</p> <p>Met with applicants concerning urban service area issues for the North East Neighborhood (Fitchburg), Blumquist Parcel (Pioneer Neighborhood, City of Madison), and with Clean Lakes Alliance staff (concerning Fitchburg's North east Neighborhood).</p>
4. Adoption of the <i>Environmental Corridors</i> Report	Continued drafting an update of the report.	Continued drafting an update of the report.
5. Quarterly progress reports.	Progress report	Progress report

Work Element 3151

Estimated Work Products Per 2014-2015 Contract	Work Products for Quarter of 10/1/14 – 12/31/14	Total Work Products by the end of the reporting period (7/1/14 – 12/31/14)
1. Record of assistance provided and meetings attended.	<p>Reviewed Stormwater Management Plans for Kettle Park West in the City of Stoughton, Inspiration Point at Swan Creek in the City of Fitchburg, The Vineyards at Cambridge in the Village of Cambridge, Juniper Ridge Subdivision in McFarland</p> <p>Met with applicants regarding stormwater management issues for the Juniper Ridge development (McFarland), and Kettle Park in Stoughton (2 meetings).</p>	<p>Reviewed Stormwater Management Plans for Linden Park, Royster Commons, Silicon Prairie Apartments at Oak Crossing; Promega, North Park, and Techlands (Fitchburg); Hawk's Crossing and Grandview in the City of Madison, Kettle Park (Stoughton), Inspiration Point (Fitchburg), The Vineyards (Cambridge), Juniper Ridge (McFarland).</p> <p>Met with applicants on stormwater management issues for Bliefernicht and Windsor Crossing developments (T. Windsor), Juniper Ridge development (McFarland), and Kettle Park in Stoughton (2 meetings).</p>
2. Quarterly reports.	Progress report.	Progress report.
Work Element 3154		
1. Methodology and assessment of wetland habitat quality and restoration potential as the basis for a Wetland Protection Plan -- a new technical Appendix to the <i>Dane County Water Quality Plan</i> .	Initiated work compiling necessary information and materials in the development of a Wetland Protection Framework for the Capital Region.	Initiated work compiling necessary information and materials in the development of a Wetland Protection Framework for the Capital Region.
2. Quarterly reports.	Progress report.	Progress report.
Work Element 3155		
1. Completed update of the <i>Groundwater Protection Plan</i> Appendix G of Dane County Water Quality Plan.	<p>Continued work on updating Appendix G of the <i>Dane County Water Quality Plan</i>. Draft plan completed for internal review and preliminary comments addressed. Additional work will be needed to update future water use projections and subsequent modeling results and mapping based on revised future population estimates (pending), prior to release for external review and comments.</p> <p>Provided review and comments on the draft products from the Wisconsin Geological and Natural History Survey associated with the Regional Groundwater Model Update project.</p>	<p>Continued work on updating Appendix G of the <i>Dane County Water Quality Plan</i>. Draft plan completed for internal review and preliminary comments addressed. Additional work will be needed to update future water use projections and subsequent modeling results and mapping based on revised future population and employment estimates (pending), prior to release for external review and comments.</p> <p>Provided review and comments on the draft products from the Wisconsin Geological and Natural History Survey associated with the Regional Groundwater Model Update project.</p>
2. Evaluation of public water systems based on the updated Regional Groundwater Model.		5-, 50-, and 100-year Zones of Contribution have been modeled and mapped for existing and planned municipal wells in Dane Co. using 2035 projected pumping rates. Results provided to WDNR Groundwater Section staff.
2. Quarterly reports.	Progress report.	Progress report.

Quarterly Progress Report
2014-2015 Water Quality Planning Work Program
Capital Area Regional Planning Commission
January 1, 2015 – March 31, 2015

Work Element 3141: Wastewater Systems Planning

Continuing work on updating Appendix C of the Water Quality Plan. The DOA released 2040 county population projections in March 2014, much later than expected, delaying the preparation of service area level population and employment projections necessary for the evaluation of treatment capacity and needs assessment for wastewater treatment facilities in the region.

Continue to serve on technical advisory committee for MMSD.

Work Element 3142: Wastewater Systems Service

Reviewed 21 sewer extensions for consistency with the *Dane County Water Quality Plan* and its conditions of approval during the period (15 CUSA; 6 OUSA).

Responded to requests for information related to the sewer extension review and approval process.

Work Element 3143: Urban Service Area Planning and Environmental Corridor Delineation

Submitted materials on the amendments to the Dane County Water Quality Plan to change sewer service area boundaries in the City of Fitchburg Northeast Neighborhood, The City of Fitchburg North Stoner Prairie. Started work on the Grove amendment in the City of Middleton.

Met with applicants and responded to requests for information on urban service area amendments and boundaries in the City of Madison (American Center), Town of Albion, and the City of Fitchburg (North East Neighborhood).

Met with applicants, and responded to requests for information related to environmental corridor delineation and mapping in the City of Monona, and the Village of Belleville

Work continued on Farmland Loss Mitigation to develop recommendations for the Commission on policies and potential approaches to integrating some aspects of farmland preservation and related ecological services into the water quality plan. Draft report was distributed for peer review; awaiting comments.

Participated in the Beltline Technical Advisory Committee.

Participated in two (2) Strengthening Communities Consensus-building Workshops.

Work Element 3151: Urban Nonpoint Source Management

Reviewed Stormwater Management Plans for Van Wie development in Waunakee, and the Vineyards at Cambridge in the Village of Cambridge.

Participated in a green infrastructure in demolition webinar, an AWRA webinar on climate change, and an EPA air quality webinar.

Attended the ASCE Wisconsin spring technical conference.

Work Element 3154: Wetland Protection Planning

Continued work compiling necessary information and materials in the development of a Wetland Protection Framework for the region.

Work Element 3155: Groundwater Protection Planning

Work continued finalizing the draft Groundwater Protection Plan, Appendix G of the *Dane County Water Quality Plan*. Additional work will be needed to update future water use projections and subsequent modeling results and mapping based on revised future population and employment estimates (pending), prior to release for external review and comments.

Participated in a WGNHS meeting on the Regional Groundwater Model update.

Related Water Quality Planning Activities

Responded to requests for information and investigated issues related to wetland resources protection, water quality, groundwater management, stormwater management, habitat assessment, and stream restoration.

Presented Groundwater Quantity information to the Dane County Environmental, Agriculture, and Natural Resources (EANR) Committee associated with its deliberations on County resolution 2014 Res. 391 *Regarding Groundwater Legislation and Current and Future Reviews of High-Capacity Well Applications*.

Provided ground and surface water information for the Capital Region Sustainable Communities (CRSC) Indicators and Metrics “Data Dashboard.”

Provided assistance to WDNR and UW researchers characterizing the sources of elevated groundwater nitrates in Dane County.

Participated in the activities associated with the UW Yahara 2070 project and the Clean Lakes Alliance.

Attended AWRA’s Wisconsin Water Resources and Agriculture Conference.

Attended WWA’s Summit on Wetlands and Watershed Planning.

Table 1

**January 2015 – March 2015 CARPC Water Quality Planning Work Program
Work Element Product Summary**

Estimated Work Products Per 2014-2015 Contract	Work Products for Quarter of 1/1/15 – 3/31/15	Total Work Products by the end of the reporting period (7/1/14 – 3/31/15)
Work Element 3141		
1. Assistance and review comments on facilities plans.	None this quarter	None
2. Review comments on WPDES permits.	None this quarter	Review of proposed WPDES permits for Consolidated Koshkonong S.D., Cambridge Oakland Joint S.D., Village of Rockdale WWTP, City of Sun Prairie WWTP, V. of Deerfield WWTP, Roxbury S.D., Village of Marshall WWTP, MG&E Compensatory Recharge, Wagner Dairy Farm, Capitol Sand and Gravel Co., Statz Brothers Inc., and Fish, Crystal and Mud Lake Rehabilitation District, Don's Mobile Manor WWTP , Revised Madison Gas & Electric Compensatory Recharge, Cross Plains Dewatering Project, and Dane County Airport.
3. Written comments and testimony on MMSD annexations.	None this quarter	Four letters (Madison Watermark-Midtown Road, Cottage Grove UW Heath, Cottage Grove Wildwood Clinic, Madison Boehm Property)
4. CMAR report analysis, archiving, and special point source studies.	Work complete.	All CMARs have been collected and analyzed as part of the update of Appendix C of the Water quality Plan
5. Adoption of the <i>Point Source Inventory and Analysis</i> Appendix C of Dane County Water Quality Plan.	The work on the update of the <i>Point Source Inventory and Analysis</i> Appendix C of Dane County Water Quality Plan was delayed because DOA population projections for Dane County were not available until March 2014. We are working on population and employment projections and land demand for individual service areas.	Work is being done is preparing population and employment projection methodology. Population and employment projections and land demand being done for individual service areas.
6. Quarterly progress reports and record of meetings attended and assistance provided.	Progress report	Progress report
Work Element 3142		
1. 80 Sewer extension review letters.	21 sewer extensions (15 CUSA; 6 OUSA)	59 sewer extensions (38 CUSA; 21 OUSA)
2. Review comments or hearing testimony on point source legislation/rules.	None this quarter	None this contract period
3. Quarterly progress reports.	Progress report	Progress report
Work Element 3143		

Estimated Work Products Per 2014-2015 Contract	Work Products for Quarter of 1/1/15 – 3/31/15	Total Work Products by the end of the reporting period (7/1/14 – 3/31/15)
1. Analysis and evaluation reports, record of public hearing and actions on 12 (est.) service area or major environmental corridor amendments.	Submitted materials on amendments in the City of Fitchburg. Started work on the Grove amendment in the City of Middleton.	Completed work on the Village of Waunakee, the town of Westport, Madison CUSA Amendment (Schewe Road), the Village of Cambridge, the City of Fitchburg North Stoner Prairie, the City of Fitchburg Northeast Neighborhood .
2. Post digital USA boundary and environmental corridor maps on the CARPC website.	Current website is maintained with current data and information.	Current website is maintained with current data and information.
3. Record of assistance provided and meetings attended.	Met with applicants and responded to requests for information related to environmental corridors mapping in the City of Monona and the Village of Belleville. Met with applicants and responded to requests for information on urban service area amendments and boundaries in the City of Madison (American Center), Town of Albion, and the City of Fitchburg (North East Neighborhood).	Responded to requests for information related to environmental corridor delineation and mapping in the Village of DeForest the Town of Windsor, the City of Fitchburg and the City of Madison (2), the City of Middleton, Carriage Ridge development in Waunakee, and Fox Hill development in DeForest. Met with applicants concerning urban service area issues for the North East Neighborhood (Fitchburg), Blumquist Parcel (Pioneer Neighborhood, City of Madison), and with Clean Lakes Alliance staff (concerning Fitchburg's North east Neighborhood). Met with applicants and responded to requests for information related to environmental corridors mapping in the City of Monona and the Village of Belleville. Met with applicants and responded to requests for information on urban service area amendments and boundaries in the City of Madison (American Center), Town of Albion, and the City of Fitchburg (North East Neighborhood).
4. Adoption of the <i>Environmental Corridors</i> Report		Continued drafting an update of the report.
5. Quarterly progress reports.	Progress report	Progress report

Work Element 3151

Estimated Work Products Per 2014-2015 Contract	Work Products for Quarter of 1/1/15 – 3/31/15	Total Work Products by the end of the reporting period (7/1/14 – 3/31/15)
1. Record of assistance provided and meetings attended.	<p>Reviewed Stormwater Management Plans for Van Wie development in Waunakee, and The Vineyards at Cambridge in the Village of Cambridge.</p> <p>Participated in webinars on green infrastructure in demolition, climate change adaptation (AWRA), and air quality mitigation (EPA). Attended the Spring Technical Conference of ASCE-Wisconsin. Attended AWRA's Water Resources and Agriculture conference and WWA's Summit on Wetlands and Watershed Planning.</p>	<p>Reviewed Stormwater Management Plans for Linden Park, Royster Commons, Silicon Prairie Apartments at Oak Crossing; Promega, North Park, and Techlands (Fitchburg); Hawk's Crossing and Grandview in the City of Madison, Kettle Park (Stoughton), Inspiration Point (Fitchburg), The Vineyards (Cambridge), Juniper Ridge (McFarland).</p> <p>Met with applicants on stormwater management issues for Blieferticht and Windsor Crossing developments (T. Windsor), Juniper Ridge development (McFarland), and Kettle Park in Stoughton (2 meetings).</p> <p>Reviewed Stormwater Management Plans for Van Wie development in Waunakee, and The Vineyards at Cambridge in the Village of Cambridge.</p> <p>Participated in webinars on green infrastructure in demolition, climate change adaptation (AWRA), and air quality mitigation (EPA). Attended the Spring Technical Conference of ASCE-Wisconsin. Attended AWRA's Water Resources and Agriculture conference and WWA's Summit on Wetlands and Watershed Planning.</p>
2. Quarterly reports.	Progress report.	Progress report.
Work Element 3154		
1. Methodology and assessment of wetland habitat quality and restoration potential as the basis for a Wetland Protection Plan -- a new technical Appendix to the <i>Dane County Water Quality Plan</i> .	Continued work compiling necessary information and materials in the development of a Wetland Protection Framework for the Capital Region.	Continued work compiling necessary information and materials in the development of a Wetland Protection Framework for the Capital Region. Prepared a draft <i>Framework for Wetland Resources Management in the Capital Area</i> , for internal review and comment.
2. Quarterly reports.	Progress report.	Progress report.
Work Element 3155		

Estimated Work Products Per 2014-2015 Contract	Work Products for Quarter of 1/1/15 – 3/31/15	Total Work Products by the end of the reporting period (7/1/14 – 3/31/15)
<p>1. Completed update of the <i>Groundwater Protection Plan</i> Appendix G of Dane County Water Quality Plan.</p>	<p>Continued work on updating Appendix G of the <i>Dane County Water Quality Plan</i>.</p>	<p>Continued work on updating Appendix G of the <i>Dane County Water Quality Plan</i>. Draft plan completed for internal review and preliminary comments addressed. Additional work will be needed to update future water use projections and subsequent modeling results and mapping based on revised future population and employment estimates (pending), prior to release for external review and comments.</p> <p>Provided review and comments on the draft products from the Wisconsin Geological and Natural History Survey associated with the <u>Regional Groundwater Model Update</u> project.</p>
<p>2. Evaluation of public water systems based on the updated Regional Groundwater Model.</p>		<p>5-, 50-, and 100-year Zones of Contribution have been modeled and mapped for existing and planned municipal wells in Dane Co. using 2035 projected pumping rates. Results provided to WDNR Groundwater Section staff.</p>
<p>2. Quarterly reports.</p>	<p>Progress report.</p>	<p>Progress report.</p>

Quarterly Progress Report
2014-2015 Water Quality Planning Work Program
Capital Area Regional Planning Commission
April 1, 2015 – June 30, 2015

Work Element 3141: Wastewater Systems Planning

Review of proposed WPDES permits for Ripps Dairy, and R Acres Rademacher farms.

Continuing work on updating Appendix C of the Water Quality Plan. The DOA released 2040 county population projections in March 2014, much later than expected, delaying the preparation of service area level population and employment projections necessary for the evaluation of treatment capacity and needs assessment for wastewater treatment facilities in the region.

Continue to serve on technical advisory committee for MMSD.

Work Element 3142: Wastewater Systems Service

Reviewed 41 sewer extensions for consistency with the *Dane County Water Quality Plan* and its conditions of approval during the period (25 CUSA; 16 OUSA).

Reviewed two MMSD annexations for consistency with adopted regional plans in Madison (Elderberry Associates dev.), and in the Town of Westport (Waunakee Community School).

Responded to requests for information related to the sewer extension review and approval process.

Work Element 3143: Urban Service Area Planning and Environmental Corridor Delineation

Finished work on amendments to the Dane County Water Quality Plan to change sewer service area boundaries in the City of Middleton (Grove).

Responded to requests for information related to environmental corridor delineation and mapping in the City of Madison (Pioneer Neighborhood and Hawk's Valley development) and the City of Middleton (two areas in Bishop's Bay development), Wolf Hollow development in Windsor (2 areas), Rivers Turn and Chapel Green in DeForest.

Work Element 3151: Urban Nonpoint Source Management

Reviewed Stormwater Management Plans for Hawk's Valley (Madison), Bishops Bay and Callaway Court (Middleton), Kettle Park West (Stoughton), Reynolds Rigging (Vienna); Wolf Hollow, Prairie Creek, Windsor Crossing (Windsor); Juniper Ridge (McFarland), Fox Hill, Savannah Brooks (DeForest); Carriage Ridge (Westport), Kilkenny (Waunakee), and Deerfield Commercial Development (Marshall).

Met with applicants regarding stormwater issues for a development in Belleville.

Participated in webinars on climate resilience (FHA), watershed councils (AWRA), pathogens in urban stormwater (2 webinars), and a habitat restoration series (6 two-hour sessions).

Work Element 3154: Wetland Protection Planning

Continued work compiling necessary information and materials in the development of a Wetland Protection Framework for the region. Subsequently, a draft *Framework for Wetland Resources Management in the Capital Area* was prepared this quarter for internal review.

Work Element 3155: Groundwater Protection Planning

Work continued finalizing the draft Groundwater Protection Plan, Appendix G of the *Dane County Water Quality Plan*. Additional work will be needed to update future water use projections and subsequent modeling results and mapping based on revised future population and employment estimates (pending), prior to release for external review and comments.

Related Water Quality Planning Activities

Significant work this quarter was directed to preparing the environmental conditions report for the East Madison Future Urban Development (FUDA) Area.

Responded to requests for information and investigated issues related to wetland resources protection, water quality, groundwater management, stormwater management, habitat assessment, and stream restoration.

Provided ground and surface water information for the Capital Region Sustainable Communities (CRSC) Indicators and Metrics “Data Dashboard.”

Coordinated budgeting and scope of work with local sponsors associated with CARPC’s 2016 Cooperative Monitoring Program activities.

Provided assistance to WDNR and UW researchers characterizing the sources of elevated groundwater nitrates in Dane County.

Participated in the activities associated with the Clean Lakes Alliance, the Dane County Hazard Mitigation Plan Steering Committee, and the Yahara Watershed Stewardship Network.

Continued participation in the WDNR Brownfields semi-annual conference call.

Table 1

**April 2015 – June 2015 CARPC Water Quality Planning Work Program
Work Element Product Summary**

Estimated Work Products Per 2014-2015 Contract	Work Products for Quarter of 4/1/15 – 6/30/15	Total Work Products by the end of the reporting period (7/1/14 – 6/30/15)
Work Element 3141		
1. Assistance and review comments on facilities plans.	None this quarter	None
2. Review comments on WPDES permits.	Review of proposed WPDES permits for the Ripps Dairy, and R Acres Rademacher farms.	Review of proposed WPDES permits for Consolidated Koshkonong S.D., Cambridge Oakland Joint S.D., Village of Rockdale WWTP, City of Sun Prairie WWTP, V. of Deerfield WWTP, Roxbury S.D., Village of Marshall WWTP, MG&E Compensatory Recharge, Wagner Dairy Farm, Capitol Sand and Gravel Co., Statz Brothers Inc., and Fish, Crystal and Mud Lake Rehabilitation District, Don's Mobile Manor WWTP, Revised Madison Gas & Electric Compensatory Recharge, Cross Plains Dewatering Project, and Dane County Airport, Ripps Dairy farm, and R Acres Rademacher farm.
3. Written comments and testimony on MMSD annexations.	Reviewed two MMSD annexations for consistency with adopted regional plans in Madison (Elderberry Associates dev.), and in the Town of Westport (Waunakee Community School).	Letters for Madison Watermark-Midtown Road, Cottage Grove UW Heath, Cottage Grove Wildwood Clinic, Madison Boehm Property, Madison (Elderberry Associates dev.), and in the Town of Westport (Waunakee Community School).
4. CMAR report analysis, archiving, and special point source studies.	Work complete.	All CMARs have been collected and analyzed as part of the update of Appendix C of the Water quality Plan
5. Adoption of the <i>Point Source Inventory and Analysis</i> Appendix C of Dane County Water Quality Plan.	The work on the update of the <i>Point Source Inventory and Analysis</i> Appendix C of Dane County Water Quality Plan was delayed because DOA population projections for Dane County were not available until March 2014. We are working on population and employment projections and land demand for individual service areas.	Work is being done is preparing population and employment projection methodology. Population and employment projections and land demand being done for individual service areas.
6. Quarterly progress reports and record of meetings attended and assistance provided.	Progress report	Progress report
Work Element 3142		
1. 80 Sewer extension review letters.	41 sewer extensions (25 CUSA; 16 OUSA)	100 sewer extensions (63 CUSA; 37 OUSA)
2. Review comments or hearing testimony on point source legislation/rules.	Discussed proposed rules (as part of the state budget bill) for analyzing amendments to the Water Quality Plan with EPA Region 5 to assess impact on water quality planning work.	Discussed proposed rules (as part of the state budget bill) for analyzing amendments to the Water Quality Plan with EPA Region 5 to assess impact on water quality planning work.

Estimated Work Products Per 2014-2015 Contract	Work Products for Quarter of 4/1/15 – 6/30/15	Total Work Products by the end of the reporting period (7/1/14 – 6/30/15)
3. Quarterly progress reports.	Progress report	Progress report
Work Element 3143		
1. Analysis and evaluation reports, record of public hearing and actions on 12 (est.) service area or major environmental corridor amendments.	Finished work on amendments in the City of Middleton (Grove).	Completed work on the Village of Waunakee, the town of Westport, Madison CUSA Amendment (Schewe Road), the Village of Cambridge, the City of Fitchburg North Stoner Prairie, the City of Fitchburg Northeast Neighborhood, and the City of Middleton Grove parcel.
2. Post digital USA boundary and environmental corridor maps on the CARPC website.	Current website is maintained with current data and information.	Current website is maintained with current data and information.
3. Record of assistance provided and meetings attended.		<p>Responded to requests for information related to environmental corridor delineation and mapping in the Village of DeForest the Town of Windsor, the City of Fitchburg and the City of Madison (2), the City of Middleton, Carriage Ridge development in Waunakee, and Fox Hill development in DeForest.</p> <p>Met with applicants concerning urban service area issues for the North East Neighborhood (Fitchburg), Blumquist Parcel (Pioneer Neighborhood, City of Madison), and with Clean Lakes Alliance staff (concerning Fitchburg's North east Neighborhood). Met with applicants and responded to requests for information related to environmental corridors mapping in the City of Monona and the Village of Belleville.</p> <p>Met with applicants and responded to requests for information on urban service area amendments and boundaries in the City of Madison (American Center), Town of Albion, and the City of Fitchburg (North East Neighborhood).</p>
4. Adoption of the <i>Environmental Corridors Report</i>		Continued drafting an update of the report.
5. Quarterly progress reports.	Progress report	Progress report
Work Element 3151		

Estimated Work Products Per 2014-2015 Contract	Work Products for Quarter of 4/1/15 – 6/30/15	Total Work Products by the end of the reporting period (7/1/14 – 6/30/15)
<p>1. Record of assistance provided and meetings attended.</p>	<p>Reviewed Stormwater Management Plans for Hawk’s Valley (Madison), Bishops Bay and Callaway Court (Middleton), Kettle Park West (Stoughton), Reynolds Rigging (Vienna); Wolf Hollow, Prairie Creek, Windsor Crossing (Windsor); Juniper Ridge (McFarland), Fox Hill, Savannah Brooks (DeForest); Carriage Ridge (Westport), Kilkenny (Waunakee), and Deerfield Commercial Development (Marshall).</p> <p>Met with applicants regarding stormwater issues for a development in Belleville.</p> <p>Participated in webinars on climate resilience (FHA), watershed councils (AWRA), pathogens in urban stormwater (2 webinars), and a habitat restoration series (6 two-hour sessions).</p>	<p>Reviewed Stormwater Management Plans for Linden Park, Royster Commons, Silicon Prairie Apartments at Oak Crossing; Promega, North Park, and Techlands (Fitchburg); Hawk’s Crossing and Grandview in the City of Madison, Kettle Park (Stoughton), Inspiration Point (Fitchburg), The Vineyards (Cambridge), Juniper Ridge (McFarland).</p> <p>Met with applicants on stormwater management issues for Bliefernicht and Windsor Crossing developments (T. Windsor), Juniper Ridge development (McFarland), and Kettle Park in Stoughton (2 meetings).</p> <p>Reviewed Stormwater Management Plans for Van Wie development in Waunakee, and The Vineyards at Cambridge in the Village of Cambridge.</p> <p>Participated in webinars on green infrastructure in demolition, climate change adaptation (AWRA), and air quality mitigation (EPA). Attended the Spring Technical Conference of ASCE-Wisconsin. Attended AWRA’s Water Resources and Agriculture conference and WWA’s Summit on Wetlands and Watershed Planning.</p> <p>Reviewed Stormwater Management Plans for Hawk’s Valley (Madison), Bishops Bay and Callaway Court (Middleton), Kettle Park West (Stoughton), Reynolds Rigging (Vienna); Wolf Hollow, Prairie Creek, Windsor Crossing (Windsor); Juniper Ridge (McFarland), Fox Hill, Savannah Brooks (DeForest); Carriage Ridge (Westport), Kilkenny (Waunakee), and Deerfield Commercial Development (Marshall).</p> <p>Met with applicants regarding stormwater issues for a development in Belleville.</p> <p>Participated in webinars on climate resilience (FHA), watershed councils (AWRA), pathogens in urban stormwater (2 webinars), and a habitat restoration series (6 two-hour sessions).</p>
<p>2. Quarterly reports.</p>	<p>Progress report.</p>	<p>Progress report.</p>

Estimated Work Products Per 2014-2015 Contract	Work Products for Quarter of 4/1/15 – 6/30/15	Total Work Products by the end of the reporting period (7/1/14 – 6/30/15)
1. Methodology and assessment of wetland habitat quality and restoration potential as the basis for a Wetland Protection Plan -- a new technical Appendix to the <i>Dane County Water Quality Plan</i> .	Continued work compiling necessary information and materials in the development of a Wetland Protection Framework for the Capital Region. Prepared a draft <i>Framework for Wetland Resources Management in the Capital Area</i> , for internal review and comment.	Continued work compiling necessary information and materials in the development of a Wetland Protection Framework for the Capital Region. Prepared a draft <i>Framework for Wetland Resources Management in the Capital Area</i> , for internal review and comment.
2. Quarterly reports.	Progress report.	Progress report.
Work Element 3155		
1. Completed update of the <i>Groundwater Protection Plan</i> Appendix G of Dane County Water Quality Plan.		Continued work on updating Appendix G of the <i>Dane County Water Quality Plan</i> . Draft plan completed for internal review and preliminary comments addressed. Additional work will be needed to update future water use projections and subsequent modeling results and mapping based on revised future population and employment estimates (pending), prior to release for external review and comments. Provided review and comments on the draft products from the Wisconsin Geological and Natural History Survey associated with the <i>Regional Groundwater Model Update</i> project.
2. Evaluation of public water systems based on the updated Regional Groundwater Model.		5-, 50-, and 100-year Zones of Contribution have been modeled and mapped for existing and planned municipal wells in Dane Co. using 2035 projected pumping rates. Results provided to WDNR Groundwater Section staff.
2. Quarterly reports.	Progress report.	Progress report.

INVOICE

July 23, 2015

From: Capital Area Regional Planning Commission
210 Martin Luther King Jr. Blvd. #362
Madison, WI 53703
(608) 266-4137

To: Ryan Raab
Wisconsin Department of Natural Resources
Bureau of Watershed Management WT/3
101 S Webster St.
Madison, WI 53703

Description:
2014-2015 WATER QUALITY MANAGEMENT PLANNING
July 2014-June 2015

Work Element #	Costs
3141	\$ 6,952.32
3142	20,171.52
3143	83,574.72
3151	26,960.64
3154	30,028.80
3155	45,696.00
Total Program	\$ 213,384.00
State FY 2015 GPR (#370.604)	\$ 51,800.00
Federal 604b (CFDA #66.454)	33,200.00
Received/billed to date	0.00
Total Remaining to be billed	85,000.00
Total Due 2014-2015	\$ 85,000.00

Capital Area Regional Planning Commission

July 2014 – June 2015 WATER QUALITY PLANNING

ELEMENT NUMBER	SPENT 3rd Qtr CY14	SPENT 4th Qtr CY14	SPENT 1st Qtr CY15	SPENT 2nd Qtr CY15	TOTAL SPENT
3141	\$ 2,774.40	\$ 3851.52	130.56	195.84	\$ 6,952.32
3142	7,898.88	3,264.00	\$ 1,240.32	\$ 7,768.32	20,171.52
3143	51,489.60	24,675.84	3,133.44	4,275.84	83,574.72
3151	4,112.64	14,426.88	1,109.76	7,311.36	26,960.64
3154	0.00	9,922.56	12,142.08	7,964.16	30,028.80
3155	28,103.04	7,996.80	7,050.24	2,545.92	45,696.00
TOTAL	\$ 94,378.56	\$ 64,137.60	\$ 24,806.40	\$ 30,061.44	\$ 213,384.00