Activity Description	ACTIVITY_C	Commitment Number		Workplan Commitments	Contact Person	Funding Source	Funding Source 2	Related ACS Measures	Time Frame/ Completion Date	Where Progress or Completion is Documented	Status/ Progress
Goal 2: Protecting America's Waters											
Objective 2.1: Protect Human Health											
Water Safe to Drink											
PWSS Program		DWC	26	Maintain primacy and fully implement PWSS Program regulations (including primacy reporting requirements). Continue to implement RTCR while State rules are developed in accordance with the Primacy Extension agreement. Promulgate amendments to the NJ Safe Drinking Water Act to incorporate and implement certain discretionary elements of RTCR. Implement the Lead and Copper Rule (LCR) consistent with Optimal Corrosion Control Treatment Evaluation Technical Recommendations for Primacy Agencies and Public Water Systems issued by USEPA March 2016. DEP expects to begin implementation of Water Quality Parameter monitoring as outlined in NJDEP-DWSG Lead and Copper Rule Implementation Strategy by December 2016.	Angarone K.	Federal – PPG				BSDW and BWSE Monthly Reports	Ongoing
Drinking water violation reporting		DWC	61	By July 1, submit an annual report to Region 2 as per Section 1414(d)(3)(A) on drinking water violations.	Angarone K.	Federal – PPG				DEP Annual Report	Ongoing
UCMR		DWC	72	Implement the Unregulated Monitoring Rule (UCMR4) according to the New Jersey - EPA Region 2 Partnership Agreement.	Angarone K.	Federal – PPG				DEP Annual Report	Ongoing
Lead ban provisions		DWC	85	Demonstrate annually that DEP is effectively implementing and enforcing the lead ban provisions (Sec. 1417 (a)(1)).	Angarone K.	Federal – PPG				NJAC 5:23-3.15(a)1, and the National Plumbing Subcode/2000, 4.2.4	Ongoing
		~~GWC~~	~~1~~	~~Continue operation, by maintaining all network wells in 150 well Ambient Ground Water Quality Monitoring Network, preparing 50 wells per year for samplin - 50 wells per year.~~	~~Bousenberry, R. (NJGS) & McGeorge, L. (WM&S)~~	~~Federal and State~~				~~Integrated Water Quality Monitoring & Assessment Report~~	~~Ongoing. Increase to 50/year will occur over several years: 30 in 2014 and 45 wells in 2015 and 2016.~~
~~Groundwater monitoring~~				~~The New Jersey Geological and Water Survey (NJGWS) is looking to purchase equipment needed to enhance its groundwater quality responsibilities and projects, which includes the NJ Ambient Groundwater Quality Monitoring Network (NJAGWQMN). The data from the NJAGWQMN is available in USGS NWIS, the National Groundwater Monitoring Network, National Water Quality Portal, NJDEP GeoWeb, and through the NJGWS website. The results of the NJAGWQMN are included in the NJDEP Integrated Report, NJDEP Trends Report, and NJGWS' publications, specifically on the NJAGWQMN.~~	~~Bousenberry, R~~	~~Federal – PPG, state and multi-purpose grant~~					New commitment
Groundwater monitoring		GWC	1	Maintain or replace wells in the AGWQM network, to ensure that 50 wells are sampled per year. Incorporate into the program the following technology to be purchased this year: five ground water quality probes (sondes) equipped to deliver data via telemetry, "push-drive" Geoprobes to supplement monitoring well data, and an advanced GPS unit to deliver locational data with centimeter accuracy.	Bousenberry, R	Federal - PPG, State and Multi-Purpose Grant				NGWS' publications, Integrated Water Quality Monitoring & Assessment Report, NJDEP Trends Report	
Underground Injection Control		GWC	23	Conduct UIC permitting activities in accordance with N.J.A.C. 7:14A.	Murphy, J.	State – General Fund				NJPDES Permit Issuance	
Underground Injection Control		GWC	24	NJDEP will submit a UIC report annually to EPA on or about October 30 of each year. This report will include all mandatory EPA reporting measures as agreed upon by EPA and NJDEP.	Murphy, J.	State – PPG Match				Documentation sent to EPA.	
Fish and Shellfish Safe to Eat											
		SWC	23	Continue monitoring for the National Shellfish Sanitation Program, including microbial, phytoplankton and sanitary surveys and open/close areas to shellfish harvesting. ~~Continue monitoring of toxic pollutants in shellfish tissue in portions of New Jersey and, pending availability in all of New Jersey's shellfish growing waters. Perform periodic monitoring of heavy metals, pesticides and PCB's for which there are criteria or guidance levels in the National Shellfish Sanitation Program.~~ Information from these analyses will contribute to NJ's classification of its coastal waters for shellfish harvesting.	Schuster, B.	Federal – PPG ~~and Supplemental 106 Funding (FFY10,FFY15~~)				Annual Shellfish Classification Charts, Growing Area Reports, BMWM Website (http://www.nj.gov/dep/bmw/index.html), STORET/WQX.	Ongoing
Enhancement of Advanced Microbiological Techniques for Source Tracking and Vibrio Management Using Quantitative Polymerase Chain Reaction (qPCR) and Pulsed-field Gel Electrophoresis (PFGE)		SWC	114	BMWM will purchase primers, probes and serotyping kits to continue work in the areas of advancedmicrobiological techniques for source tracking and vibrio management in New Jersey. BMWM will become certified in PFGE through PulseNet a national network of public health and food regulatory agency laboratories.	Schuster, B.	Federal - Supplemental 106 (FFY14, FFY15)				Long Term Strategy Annual Progress Report and Annual Vibrio Management Plan.	Ongoing
		SWC	214	Effective harmful algal bloom monitoring. Monitor for harmful algal blooms in NJ's coastal and estuarine water to protect public health from direct recreational contact and shellfish consumption. Flow cam microscope will enhance the ability to identify and enumerate algal species in both fresh and marine waters with more frequency of sampling.	Schuster, B.	Federal - ~~PPG Supplemental 106 (FFY15) & State – General Fund~~				Storet, Biotoxin Contingency Plan, and monthly Phytoplankton Reports (June through October)	Ongoing
Water Safe for Swimming											
		SWC	185	Through the Clean Shores Program, continue to use state prison labor to remove debris from ocean and estuary shorelines to reduce floatable debris incidents at ocean recreational areas.	Schuster, B.	Coastal Protection Trust Fund				Periodic summary reports; indicator. Data management - PC database.	Ongoing
Beach Monitoring		SWC	186	Through the Cooperative Coastal Monitoring Program, continue to coordinate the routine monitoring of coastal recreational waters-performed by the State and local health agencies. All activities are dependent on continued funding from EPA's Beach Grant. Effective communication to the public is done through an interactive web page.	Schuster, B.	EPA Beach Grant, ~~Supplemental 106 Funding (FFY15)~~				Annual summary reports; indicator. Data management - STORET data warehouse.	Ongoing

		~~SWC~~	~~187~~	~~Redesign and development of new BEACHES Database for NJ's Cooperative Coastal Monitoring Program to provide beach related data to the public via a new interactive website. In addition the database will provide reporting capabilities for participating local Health Departments. Funding from EPA's Beach Grant.~~	~~Schuster, B.~~	~~EPA Beach Grant~~				~~New BEACHES Database for NJ's Cooperative Coastal Monitoring Program is completed https://njbeaches.org/ STORET/WQX Completed~~	~~Completed~~
Objective 2.2: Protect and Restore Watersheds and Aquatic Ecosystems											
Improve Water Quality on a Watershed Basis											
Rivers and Streams Monitoring Networks		SWC	1	Continue to monitor and evaluate fixed chemical/physical and microbiological quality of freshwater streams and sediments, including the use of the redesigned Cooperative Ambient Surface Water Quality Monitoring Network and Regional Targeted Water Quality Networks; continue benthic Ambient Macroinvertebrate Network (AMNET) at rotating fixed stations; continue implementation of Northern and Southern Fish and Headwater Index of Biotic Integrity, Summer Bacti, at rotating fixed stations, statewide probabilistic and sentinel sites; continue monitoring for purposes of listing/delisting under CWA section 303(d). Continue a probabilistic network of 50 NJ stream sites which, to extent possible, will integrate physical/ chemical, biological, and habitat assessments. Results from this network will be used to provide statistically sound statewide estimates of water quality. ~~Continue enhanced Analytical Methods for Measuring Low Level Chromium Hex and Mercury in Surface Water 2x/year at each site.~~ **Continue to enhance and/ or develop new biological indices as needed.** **Continue to enhance and/ or develop monitoring to address gaps.**	McGeorge, L.	Federal - PPG,**Supplemental 106 FY16,** and State CBT				Integrated Water Quality Monitoring and Assessment Report, WM&S Webpage, STORET/WQX	Ongoing
TMDL ~~Effectiveness~~ Monitoring		SWC	7	~~Hammonton~~ TMDL ~~Effectiveness~~ Monitoring: Collect ambient synoptic monitoring data necessary to establish TMDLs in selected waters in accordance with the MOA TMDL Schedule.	McGeorge, L., Schuster, B.	Federal - PPG				NJ Register, Integrated Water Quality Monitoring and Assessment Report , STORET/WQX, DEP Website	Ongoing
~~SI~~ **Source Trackdown**		SWC	10	Conduct investigations at impaired/impacted ~~biological~~ monitoring sites to ascertain the probable sources and causes of the impaired condition. Collaborate with other water programs of the Department, and external partners utilizing a team approach to determine potential stressors.~~.~~	McGeorge, L.	Federal - PPG and State CBT				Individual project report, STORET/WQX	Ongoing
NARS & ~~EPA~~ **regional network**		SWC	12	Participate in EPA National Aquatic Resource Surveys as resources allow. ~~NCCA sampling will be initiated in FFY15. BMWM will be monitoring 26 sites in NJ's coastal eustuaries during June through September. Monitoring will be conducted for water column chemistry, sediment (chemical and biological) and fish surveys. Survey packages will be completed as required.~~ Wetlands NWCA CY 2016; **NLA CY 2017 and EPA Regional Monitoring Network (RMN) - ongoing NRSA CY 2018-2019.**	McGeorge, L., Friedman, B., Walz, K.	Federal - Supplemental 106 Funding and CBT State				EPA Reports	Ongoing
NWQI		SWC	13	**Montioring for National Water Quality Initiative (NWQI), EPA - Salem watershed** **Water quality and biological data obtained will be used by NJDEP to assess whether water quality and/or biological condition related to nutrients, sediment, or pathogens has changed in the watershed, and if the change can be associated with implemented agricultural conservation practices (Best Management Practices, BMPs).**	McGeorge, L.	Federal - PPG and State CBT				STORET/WQX	
LAKES		SWC	14	Continue NJDEP Ambient Lakes Monioring Network, re-designed to include probabalistic, reference, and targeted lakes. As part of network, conduct monitoring of cyanotoxins, with analysis performed in BFBM laboratory. Implement diatom index analysis. **Evaluate use of biological monitoring and assessment in lakes.** **Evaluate newly developed diatom nutrient inference models for routine use (with DSREH)** **Evaluate the need to develop diatom impairment indices (with DSREH)**	McGeorge, L. and Buchanan, G. (DSREH -diatom commitments)	Federal – PPG ~~& Supplemental 106 Funding (FFY12) - microcystin analyses~~ **State CBT**				Individual Project Reports STORET/WQX, WM&S Website	Ongoing
HAB Response Strategy		SWC	15	**Develop Statewide HAB Response Strategy in coordination with DSREH and other state agencies. Strategy to include response plan, advisories, establishment of threshold values, and research.**	**McGeorge, L. and Buchanan, G. (DSREH)**	State CBT, Federal - PPG				Division webpage (www.state.nj.us/dep/wms)	
		SWC	26	NJDEP will assist EPA in reporting NJ's accomplishments in meeting waterbody and watershed restoration goals, including SP-10 and SP-11. NJDEP will also assist EPA in setting targets for 2016 . ~~By September 1, 2016 .~~ NJDEP will provide EPA with a "crosswalk" of the listings/geographic areas in 2002 which comprise each delisted waterbody/pollutant combination in 2014. NJDEP has targeted September 1, 2016 for sharing this crosswalk.	Cenno, K.					A separate report for the "crosswalk."	Ongoing
		SWC	36	Coordinate water monitoring and assessment activities to support departmental clean water objectives and water programs. Includes implementation of Long-Term Monitoring Program Strategy (and associated water indicators) in accordance with EPA Guidance "Elements of a State Water Monitoring and Assessment Program". As part of this process, identify the primary data and assessment gaps for subwatersheds listed as "unassessed" on the Integrated List. Report the gaps and progress made in filling them as part of the Long Term Monitoring and Assessment Strategy Annual Progress report.	Friedman, B.	Federal – PPG				Long Term Strategy Annual Progress Report.	Ongoing
		SWC	37	Coordinate NJ–Water Monitoring Council with USGS, EPA and other NJ monitoring organizations. Includes 40 members from 19 monitoring organizations. Council holds 3 meetings/year and periodic statewide water monitoring summits.	McGeorge, L.	Federal - PPG and State CBT				NEPPS Annual Performance Report and NJWMC Webpage	Ongoing

Database Maintenance: NJEMS/ PCS		SWC	43	NJDEP will implement a NJDEP/EPA agreed upon action plan for the NPDES data entry/flow into ICIS-NPDES. In the interim, NJDEP will provide 100% Wendb DMR data elements for major facilities via reports available on the NJ Data Miner website.	Murphy, J.	State – General Fund				NJPDES Permit Issuance	
Database Maintenance: NJEMS/ PCS	SWC -	SWC	44	NJDEP will implement a NJDEP/EPA agreed upon action plan for the NPDES data entry/flow into ICIS-NPDES. In the interim, NJDEP will provide DSW permit information via reports available on the NJ Data Miner website and, for pretreatment, will email information to EPA as agreed. Once NJPDES data is flowing into ICIS, NJDEP will also input pretreatment audit information (including but not limited to audit dates, number of SIUs in significant non-compliance, number of SIUs without permits, etc...).	Beym, T.	State – PPG Match				ICIS and NJDEP Data Miner website	
Data Management		SWC	47	Enter DEP-generated ambient water quality data that has been QA'd and not entered into USGS' NWIS database into STORET/WQX data warehouse. NJDEP has targeted to have this data entered by June of the following year. ~~Establish dissemination platform~~ **Enter DEP-generated** short-term continuous **data from** deployments of various data sondes and loggers in freshwaters of the State into the **NJDEP's DWM&S Continuous Data Monitoring Program** .	McGeorge, L., Schuster, B.	Federal – PPG ~~& Supplemental 106 Funding (FFY15)~~				STORET/WQX data warehouse **and DWM&S' Continous Data Website**	Ongoing
		SWC	66	Establish TMDLs, watershed restoration plans and/ or take other appropriate actions to address all listed waterbody/ pollutant combinations with a goal of addressing each combination within 13 years of its original listing date. The two year schedule for addressing impairments, including TMDL development is posted for public comment along with the biennial "Integrated Water Quality ~~Monitoring and~~Assessment Report". NJDEP has posted the list of high priority waters in the July 2014(2) NJ Register and it consists of 5~~60~~ pollutant-waterbody combinations, all in the Raritan, Salem and Saddle River watersheds. ~~NJDEP will propose the Raritan TMDLs in the NJ Register, respond to comments and submit the Raritan TMDLs to EPA for approval by November 2014.~~ EPA and NJDEP agree that mechanisms other than TMDLs may be used to address pollutants for some waterbodies. Criteria for choosing additional waterbodies for action include alignment with the State Strategic Plan. In 2017~~5~~, NJDEP will propose TMDLs for the Salem and Saddle Rivers, with finalization ~~in~~ 2018~~6~~. NJDEP will also identify the number of segments and pollutants associated with the ~~Salem and Saddle Rivers~~ Hamonton River TMDLs. ~~For 2015, DEP will commence water sampling to support TMDL development in the Hammonton River with a goal of proposing a TMDL in 2016.~~ In 2018, NJDEP will develop a TMDL model for the Hammonton River For priority waters identified under EPA's 303(d) program measure (WQ-27), NJDEP will provide annual commitments for TMDLs, alternative restoration approaches, or protection plans for each federal fiscal year.	Cenno, K.	State- CBT				Individual Project Reports	Ongoing
		SWC	80	~~NJDEP will conduct a stakeholder process in 2015 to seek input on changes needed to the SWQS. NJDEP will propose changes to SWQS, as needed and resources allow, in 2016.~~ NJDEP will propose changes to SWQS and submit adopted amendments to to EPA in 2017. Anticipated areas of change include recreational criteria consistent with the BEACH Act in all primary contact recreation waters, freshwater ammonia and nutrient criteria and/or policies.	Cenno, K.	State - General Fund				New Jersey Register	Ongoing
		SWC	81	Continue to implement the projects identified in the 2013 Nutrient Criteria Enhancement Plan (NCEP) and provide annual progress reports. Evaluate progress under the 2013 plan and revise the NCEP in 2017 ~~, as necessary, in 2016~~ including task completion updates and new tasks. The revised NCEP should include a brief description of tasks already completed/still ongoing and provide the description of how NJDEP plans to use this information in the process of numeric criteria derivation for states estuaries. Specific informationabout the status of numeric nutrient criteria derivation should be inlcuded along with the expected schedule for their adoption and submission to EPA for approval.	Cenno, K.	State - General Fund				Nutrient Criteria Enhancement Plan annual progress reports and Long Term Strategy Annual Progress Report	Ongoing
~~NJPDES Rules~~		~~SWC -~~	~~84~~	~~As the 2008 updated CAFO rules can be implemented by reference under the existing authority of N.J.A.C. 7:14A-2.3(a), the Department has determined that it is not necessary to amend those rules to include additional specific provisions related to CAFOs at this time.~~	~~Murphy, J~~	~~State – PPG Match~~				~~New Jersey Register~~	~~No Action~~
Planning – 303(d) List		SWC	89	Submit to EPA the required elements under Sections 303(d) and 305(b) of the CWA by April 1st of even-numbered years. Assess water quality using all existing, and readily available data and information, and provide NJ's assessment results to EPA in a format compatible with the ATTAINS national data base. NJDEP shall keep EPA apprised of progress regarding the draft 2014 Section 303(d) and 305(b) required elements and expects to public notice them in the NJ Register on or about February 1, 2016. NJDEP will provide the region with electronic ADB compatible spreadsheet. NJDEP will assit with validation of assessment information as necessary.	Cenno, K.	State – General Fund				2012 Integrated Water Quality Monitoring and Assessment Report.	Ongoing
NJPDES DSW Permitting		SWC	107	Number and percent of facilities covered by DSW permits that are considered current. Goal for major DSW permit is no greater than 25% backlogged during the time NJDEP is preparing for NJPDES data entry/flow into ICIS-NPDES. After NJPDES data is flowing into ICIS-NPDES, the goal for major DSW permits will be no greater than 15% backlogged, unless otherwise negotiated.	Patterson, P.	State – PPG Match				NJPDES Permit Issuance	

		SWC	115	Determine the Natural Variability of Phosphorus Concentrations at Selected Diatom Sites: The primary objective of this project is to develop data to determine the natural variability of phosphorus and nutrients in relation to the variability in diatom communities. Data will be used, in conjunction with other available physical/ chemical and biological data to make informed decisions regarding the development of appropriate Surface Water Quality Standards for Total Phosphorus in NJ streams	Cenno, K., McGeorge, L., Schuster, B.	Federal - Supplemental 106 Funding (FFY14)				STORET/WQX data warehouse, Long Term Monitoring Strategy Progress Reports, SWQS	Awaiting Commencement
Industrial Pretreatment		SWC -	121	Continue approval, modification and oversight of delegated pretreatment programs in accordance with N.J.A.C. 7:14A; continue to conduct audits in accordance with the agreed upon protocol; continue issuance of SIU permits in non-delegated areas; and provide data in accordance with SWC 44.	Kempel, N.	State - PPG Match				Other	Ongoing
NJPDES Permitting		SWC -	123	Number and percent of priority NJPDES permits that are issued during the federal fiscal year. Number of priority permits to be issued shall be determined as the 80% of the 20% of the candidate list. Target number for each State fiscal year to be determined by September 30th of that fiscal year.	Patterson, P.	State - PPG Match					Ongoing
CSOs		SWC -	123.4	NJDEP will monitor CSO permittees progress toward meeting LTCP compliance due dates.	Patterson, P.						Ongoing
Statewide NPS Program		SWC	138	NJDEP will report into the Grants Reporting and Tracking System (GRTS) all projects selected for Section 319 grant funds (federal and state match). GRTS data entry will include, as applicable and appropriate, load reduction data for N, P and sediments. As required by Section 319, NJDEP will submit to EPA a statewide annual NPS report. Using a Watershed based approach, NJDEP will develop WQ-10 success stories for water bodies that were primarily non point source impaired and have been partially or fully restored. *Complete GRTS entry ~~by~~ on or about 2/15/174, 2/15/185, 2/15/196 (for load reductions). *Submit annual NPS report ~~by~~ on or about 11/1/174, 11/1/185, 11/1/196. ~~*Complete 2 WQ-10 success stories by 7/30/14.~~ *Complete 1 WQ-10 success story per year ~~by~~ on or about 7/30/~~15~~. ~~*Complete 1 WQ-10 succes story by 7/30/16.~~	Cenno, K./Somboonlakana, D.	Federal PPG, 319 State-General Fund				GRTS entries made directly to GRTS. Success stories are individual reports.	Ongoing
~~Characterization 305(b)~~		~~SWC~~	~~165~~	~~Provide the region with electronic final approved version using the assessment Database (ADB) version 2 or an ADB compatible spreadsheet. NJDEP will assist the Region and RTI with validation of assessment information, as necessary~~	~~Cenno, K.~~					~~Provide information to EPA by April 1st of odd-numbered years.~~	~~Ongoing~~
Fish IBI Development	Ambient & Facility Monitoring	SWC	188	~~Initiate collection of data necessary for statistical analysis, validation and implementation of Large Rivers Index of Biotic Integrity;~~ Continue collection of fish community data necessary for statistical analysis and validation of Southern Fish IBI in the outer coastal plain.	McGeorge, L.	~~Federal - Supplemental 106 Funding (FFY07-08 and FFY10)~~ **Federal PPG, State CBT**				Individual project reports and/or WM&S webpage	Ongoing
NJPDES Permitting		SWC -	220 *formally SWC 188 (Reassigned number)*	NJDEP will update EPA on the status of expired/current NJPDES dischargers including the number of entitites covered by general permits for construction sites, industrial facilities, MS4s, and CAFOs.	Beym, T.	State - PPG Match				Email Communications	Ongoing
NJPDES Permitting		SWC	189	NJDEP will work to eliminate the backlog of permits expired greater than 10 years.	Patterson, P.	State - PPG Match				NJPDES Permit Issuance	
NJPDES Permitting		SWC	190	NJDEP will continue to work with EPA to address mutually-agreed upon permit-related action items that have been identified by EPA or NJDEP. EPA and NDEP will meet in person or have a conference call quarterly if needed, but at a minimum of annually to discuss permitting issues. EPA and NJDEP shall meet no later than the end of the first quarter of the State fiscal year for which discussions are appropriate.	Patterson, P and Murphy, J.						
NJPDES Permitting		SWC	191	NJDEP will establish e.coli limitations for newly issued permits, as appropriate for discharges to Freshwater and Enterococci for SE1 and SC waters, and SE2 and SE3 get Fecal limits.	Patterson, P						
NPS Pollution Control Projects in Estuarine Environments		SWC	193	$371,482 of discretionary 319(h) funds implementing three major nonpoint source pollution control stormwater basin retrofit projects to reduce nutrients, total suspended solids and pathogen loads to the upper portions of Barnegat Bay.	Cenno, K. ~~Springer, G.~~	EPA FYY 2008 Discretionary Grant				Quarterly reports by grant recipient and deliverables.	

NPS Green Infrastructure Techniques		SWC	195	These funds were originally allocated to support green infrastructure projects within the Rockaway River watershed~~. A grant agreement with Rutgers University was executed to advance one of the many implementation measures in the approved watershed restoration and protection plan for the Rockaway River, as well as the TMDL for phosphorus in the non-tidal Passaic River Basin. This green infrastructure project was to demonstrate and document the effectiveness of green infrastructure techniques to control, manage and reduce wet weather associated nonpoint sources of pollution in a priority watershed(s)~~ at the Rockaway Mall~~. The total grant amount: is~~ ($381,715)~~.and is matched in the amount of $254,477 from state in-kind match and/or grants-in-aid to related projects and local government partners. Rutgers University (grantee) was able to take this project through the design phase.~~ Unfortunately, due to organizational changes withing the company that owns the Rocakway Mall, there remained little interest to continue moving forward with this project. The Department~~ is in the process of~~ reprogrammeding the remaining funds and appliedying them to the existing ~~RP 10-106~~ grant account for Green Infrastructure Implementation Projects for the City of Newark~~, N.J. The Department executed Section 319(h) "City of Newark Stormwater Education/BMP's implementation Program to Control CSO Discharges" ($200,000) on July 7, 2009. and is due to expire on July 4, 2013. Rutgers has achieved great success working with the Newark School Districts and neighborhood communities in concert with the Greater Newark Conservancy and the New Jersey Tree Foundation and have performed exceptionally well in all areas of project management and implementation.~~ This ~~new~~ project ~~(WM14-034) will~~ builds upon this successful initiative with an expiration date of ~~May~~ August 2016.	Cenno, K. ~~Springer, G.~~	EPA FYY 2009 Discretionary Grant				Quarterly reports by grant recipient and project deliverables.	
~~Piloting Nutrient Assessment Method including Periphyton Speciation Monitoring in Southern NJ Rivers and Streams~~	~~Ambient & Facility Monitoring~~	~~SWC~~	~~197~~	~~Using a professional services contract for the identification and enumeration of periphytic lotic species, validate and enhance diatom index (TDI) and pilot the application of the index developed by the Philadelphia ANS. Continuing objectives are asfollows:~~ ~~1.) Samples to be collected by NJDEP staff at 25 - 40 stations from the southern NJ portion of the Ambient Surface Water Monitoring Network.~~ ~~2.) Validation of northern inference model and BCG from the Northern NJ portion of the Ambient Surface Water Monitoring Network.~~ ~~3.)Analyze applicability of Northern TDI and BCG to Coastal Plain Streams, and possible development of Coastal Plain TDI and BCG.~~	~~McGeorge, L., Cenno, K.~~	~~Federal - Supplemental 106 Funding (FFY09 and FFY10)~~				~~Project report, Nutrient Criteria Enhancement Plan progress reports and Long Term Monitoring Strategy Progress reports.~~	~~Ongoing~~
~~Development of Sediment Diatom Impairment Index for NJ Lakes,~~	~~Ambient & Facility Monitoring~~	~~SWC~~	~~198~~	~~Using a professional services contract for the identification and enumeration of sediment lentic species from previously collected sediment samples, and new samples, and the use of said data to validate a NJ specific version of the index previously developed by the Philadelphia ANS. Continuing objectives are asfollows:~~ ~~1.) Validate nutrient inference model for NJ lakes above the fall line at eco-region scale.~~ ~~2.) Development of similar inference model for Southern NJ Coastal Plain lakes at eco-region scale.~~ ~~3.) Development of nutrient inference model for preexisting nutrient conditions using diatom assemblages from bottom layer sediment cores .~~ ~~Receive and review reports and data.~~	~~McGeorge, L., Cenno, K.~~	~~Federal - Supplemental 106 Funding (FFY09 and FFY10).~~				~~Project report and Nutrient Criteria Enhancement Plan and Long Term Monitoring Strategy progress reports~~	~~Ongoing~~
Fish Tissue Monitoring	Ambient & Facility Monitoring	SWC	199	Continue the NJDEP fish tissue monitoring program. ~~Freshwater~~ sampling and analyses will be conducted on 10-20 targeted and~~/ or~~ probabilistic sites in public lakes over 10 acres, and/or large rivers. **Implement esturine and coastal waters fish tissue monitoring program.**	McGeorge, L., (WM&S), Buchanan, G. (OS)	Federal - Supplemental 106 Funding ~~(FFY14)~~				Raw data in to STORET/WQX data warehouse	Ongoing (sampling completed)
Trends		SWC	204	Using a professional services contract, continue work with USGS to develop long-term (30 year), chemical/physical water quality plots and trends information for approximately 30 stations in NJ's cooperative ambient rivers and streams monitoring network. Trends focus is on Nutrients and Phosphorus.	McGeorge, L.	Federal - Supplemental 106 Funding (FFY11 and FFY12)					Ongoing
Enhanced Technology		SWC	205	Develop capacity for use of advanced freshwater monitoring technology (meters) for efficient production and transfer of water quality data (e.g., pH and conductivity) from NJ's rivers, streams and lakes. ~~NARS (NRSA, NLA) and/or probabilistic/ statistical valid surveys including new projects and initiatives such as the new probabilistic component of the rivers and streams networks will utilize this technology.~~ Continued upgrade monitoring equipment ~~(multi-parameter meters)~~ which will result in standardization of analytical results and minimization of transcription errors when entering data into databases. Enhance capacity of meters for measuring flow. Develop capacity for in-field electronic documention and data upload of observations and field measurements. Develop capacity for short term continuous freshwater and coastal monitoring stations with telemetry and real time data. **Develop capacity to perform bathymetric surveys, lake residence time, submerged and surface vegetation surveys, and HAB bloom monitoring using unmanned aerial vehicle (UAV), depth finder, and GIS equipment.**	McGeorge, L., Schuster, B.	Federal - Supplemental 106 Funding ~~(FFY12/13, FFY14, FFY15)~~ **FFY16**					
NPS Strategy		SWC	208	~~Update~~ Implement New Jersey's Nonpoint source management program plan. ~~Milestone 1: Submit Draft Nonpoint source management plan to EPA by September 1, 2014. Milestone 2: Submit Final Nonpoint source management plan to EPA by December 1, 2014~~	Cenno, K.	Federal PPG, 319 State-General Fund				Individual Report, **Annual Statewide NPS Report**	Ongoing

~~NPS Barnegat Bay Wetlands Assessment~~		~~SWC~~	~~209~~	~~A statewide uniform wetlands assessment and monitoring protocol will be developed, building upon an approach that the DNREC developed along with the Mid Atlantic Wetlands Work Group, which will also consider climate change and sea level rise adaptation. The project will be designed to provided assessments of those wetlands that are most functional and critical for restoration, protection and preservation thereby providing better long term permitting and restoration decision making. This project will be accomplished through a pass-through grant to Ocean County. Grant amount: $150,000. This amount will be matched in the amount of $100,000 from in-kind services and/or grants-in-aid by BBNEP and/or the Department.~~	~~Springer, G.~~	~~EPA FYY 2009 Discretionary Grant~~				~~Grant Agreement executed in June 2010. Milestone 1: By December 31, 2010, describe the selected sites and complete installation of the SET's in Barnegat Bay. Milestone 2: By December 31, 2010, complete the QAPP. Milestone 3: By June 30, 2011, conduct initial monitoring. A report summarizing the data collected during the 2011 monitoring season was received by the Department. Monitoring continued for the 2013 monitoring season. A report summarizing 2013 monitoring activities was recieved at the end of the monitoring season.~~	~~Completed~~
NPS Barnegat Bay Living Shoreline		SWC	210	Barnegat Bay Living Shoreline: NJDEP will assist in the recovery and future protection of water quality and natural resources in Barnegat Bay through the implementation of a high visibility living shoreline demonstration project in the Barnegat Bay watershed, in accordance with the April 22, 2013 EPA approved detailed workplan. NJDEP has targeted the following milestones for this project. Milestone 1: Completion of final design and permit application (target: December 20154). Milestone 2: Development of a public outreach plan (target: December 20164). Milestone 3: Implementation/construction of living shoreline (target: June 20176). Milestone 4: Public outreach plan implementation (target: June 20176).	Cenno, K., ~~Springer, G.~~	EPA FYY 2012 Discretionary Grant				Quarterly reports by grant recipient and deliverables	Ongoing
Living Shorelines to Restore Wetlands, Improve Water Quality and Engage Communities in Camden		SWC	211	NJDEP will use the CWA 319(h) Discretionary Funds to: a) Develop a living shoreline design for a specific location in Camden, New Jersey, where it is determined to have the greatest beneficial impacts on water quality, habitat quality, and coastal resiliency; b) build support for the implementation of climate resiliency techniques like living shorelines among community groups and local decision makers through project-related education/outreach; c) train and engage the local community in freshwater mussel monitoring and; d) quantify the contribution of endemic freshwater mussel populations in water quality improvements.	Cenno, K., ~~Springer, G.~~ (DEP), Purdy, I, Drake, K. (EPA)	EPA FYY 2013 Discretionary Grant				Quarterly reports by grant recipient and deliverables.	Ongoing
Nonpoint Source Management in the Barnegat Bay Watershed - Reducing Nutrient Pollution from Fertilizer and Reducing Watercraft Impacts		SWC	212	NJDEP will reduce nutrient pollution from fertilizer and reduce watercraft impacts: *Fertilizer Law Implementation and Outreach:* NJDEP will advance implementation of the NJ Fertilizer law by developing training materials to reach lawn care professionals who are required to be certified in order to apply fertilizer, in accordance with the March 2013 EPA approved workplan; *Reduce Watercraft Impacts to Ecologically Sensitive Areas:* NJDEP will incorporate the location information of the Ecologically Sensitive Areas on the NJ Division of Fish and Wildlife GPS Mobile App in such a way that the information will be easily accessible to boaters. NJDEP will further assess the Ecologically Sensitive Areas, including further verification of their locations and impacts of Hurricane Sandy, in accordance with the March 2013 EPA approved workplan. Remaining tasks: ~~Complete Post-Sandy change assessment (Component 4) (December 2014); Complete Bayesian statistical modeling (Component 1) (August 2014); Complete pre vs. post data assessment (Component 3) (December 2014); Complete risk assessment (Component 2) (March 2015); Complete index development (Component 5) (April 2015); Complete Draft Project report (June 2015);~~ NJDEP expects to complete Final Project report in ~~(~~August 20165~~)~~	Cenno, K., ~~Springer, G.~~	EPA FYY 2012 Discretionary Grant				Quarterly reports by grant recipient and deliverables	Ongoing
Statewide NPS Program		SWC	213	NJDEP will assist EPA in reporting NJ's accomplishments in meeting waterbody and watershed restoration goals for SP-12. ~~*(note: this was the former SWC-203 under Land Use Management)*~~ Complete 1 SP-12 success story per year ~~by~~ expected or or about 6/30/~~14~~ ~~Complete 1 additional SP-12 story by 6/30/15.~~	Cenno, K.	Federal PPG, 319 State-General Fund				SP-12 success stories	Ongoing
		SWC	216	In accordance with the December 23, 2014 EPA approved detailed workplan, NJDEP will implement two citizen science projects in the Barnegat Bay Watershed: a) Adult Community Engagement in Holiday City, Toms River, NJ and; b) Citizen Monitoring of Water Quality at the Barnegat Bay Partnership Brown's Woods Preserve in Toms River, NJ.	~~Friedman, B.~~ Cenno, K.	Discretionary 106 funding				STORET/WQX data warehouse	Awaiting Commencement
		SWC	217	Using a professional services contract, expand upon current reference lake monitoring efforts to determine reference lake conditions throughout the state's ecoregions. The primary objective of this project is to collect data necessary to assess detailed growing season water quality conditions within New Jersey reference lakes. The data will be used to charcterize reference lake conditions in the ecoregions of the state for enhancing the current lake nutrient criteria	Cenno, K..	106 Supplemental Funds (FFY15)				STORET/WQX data warehouse, Nutrient Criteria Enhancement Plan, Integrated Water Quality Monitoring & Assessment Report	Awaiting Commencement
		~~SWC~~	~~218~~	~~Adequate statewide sample collection, analysis, and identification of Harmful Algal Blooms (HAB's) are needed to protect public and ecosystem health. Analyses can be enhanced by use of Flow thorough microscopy and qPCR. Public health protection is managed by ensuring marine bio toxins and toxin producing species are not present in shellfish harvest waters (NSSP requirement), protect bathers at beaches from contact with potentially toxic algae species, in both marine water (many species) and fresh waters (cyanobacteria), and to protect public water supplies from toxins produced by cyanobacteria. Ecosystem heath is protected by identifying conditions and HAB's, that can impact dissolved oxygen; or directly impact marine organisms, such as hard clams that can be impacted by "Brown Tides" caused by the algae species Aureococcus anophagefferens .~~	~~Schuster, B.~~	~~State-General Fund, 106 Supplemental Funds (FFY15)~~				~~Storet, Biotoxin Contingency Plan, and monthly Phytoplankton Reports (June through October)~~	~~Ongoing~~
Improve Coastal and Ocean Waters											
		SWC	25	Continue monitoring basic water chemistry in coastal and estuarine waters (nutrients, DO, salinity and chlorophyll) in bay and near-shore waters.	Schuster, B.	Federal -PPG, Supplemental 106 Funds (FFY15)				Integrated Water Quality Monitoring and Assessment Report, STORET/WQX	Ongoing

Ocean Dissolved Oxygen Monitoring		SWC	192	routine monitoring of dissolved oxygen, temperature and salinity in NJ's ocean waters through use of an automated underwater vehicle (glider) in cooperation with Rutgers University.	Schuster, B.	~~Discretionary (FFY14), Supplemental 106 (FFY10), EPA RARE (FFY09) and Regional Methods (FFY09) funding~~ State Funds-CBT				Individual project reports and data entered STORET data warehouse.	Ongoing
Coastal Water Quality Data Management System		SWC	200	~~Development of a data system to handle remote sensing, real-time and vessel-based coastal water quality data.~~ Maintain continuous monitoring website developed to handle both real-time and short term deployed continuous monitoring water quality equipment.	Schuster, B.	Federal - ~~PPG Supplemental 106 Funding (FFY09, FFY15)~~				NJDEP/Rutgers Air Craft Remote Sensing web page has been developed. New web site for continuous data developed for public access ~~to others in progress~~ completed. Completed 3 deployments in FY14, and 3 more are scheduled for FY15 using NJDEP funding.	Ongoing
Enhanced Remote Sensing of chlorophyll in NJ's coastal waters		SWC	201	Continue extension of time period for remote sensing flights, weekly, over NJ's coastal waters from March-May and Sept-Oct to expand surveillance for potential blooms	Schuster, B.	Federal - Supplemental 106 Funding (FFY09 and FFY10)				www.nj.gov/dep/bmw	Ongoing
Assess sediment toxicity--Barnegat Bay pilot		SWC	203	Using a professional services contract, assess sediment toxicity as a possible cause for aquatic life impacts. Pilot in Barnegat Bay.	Cenno, K.	Federal - Supplemental 106 Funding (FFY11 and FFY12/13)				Project report upon completion	Ongoing
~~Enhanced Coastal Assessment~~		~~SWC~~	~~206~~	~~Enhance NJ's coastal assessment of marine (near shore) and esturine waters using physical, chemical, and biological indicators and develop a tool (Report Card) to identify gaps and better communicate water quality status to decision makers, managers and the public.~~	~~Schuster, B.~~	~~Federal - Supplemental 106 Funding (FFY13, FFY15)~~				~~Not done, reallocated funds for marine fish tissue chemical monitoring~~	~~Ongoing~~
Reduce Marine Debris		SWC	207	Purchase and install 11 - 15 bottle refilling stations for coastal state parks and urban parks along the Camden waterfront. Project will address the problem of disposable plastic water bottles entering tidal waterways and reduce marine debris.	Schuster, B.	Federal - 319(h) and PWSS				Report to EPA	Awaiting Commencement

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Comment: Sheri Shifren:
Does this get removed since it was completed last year?