Federal American Rescue Plan Act – Stormwater Management Grants for Publicly Managed Water Quality Improvements – 2022 Request For Proposals
Client Name: Deal Lake Commission
Project Title:
Stormwater Quality Improvement Projects at Seaview Square Mall In the Headwater Reach of The Colonial Terrace Watershed of Deal Lake

SAGE user name: X
SAGE password: X

NJDEP 319 WQR GRANT - SAGE APPLICATION FIELDS

Click on a section title below + "bookmark" to go directly to that section in this document.

SECTION 1: PROFILE INFORMATION

Organization Name	Deal Lake Commission
Organization Type	Other Government Agency/Authority
City	Oakhurst
State	New Jersey
Zip	07755
Street Address	399 Monmouth Rd
Vendor ID Number	22-2087567
DUNS Number	079587081
Type of Governing Body	Board of Commissioners
Contact Person Name	Don Brockel
Title	DLC Chairman
Phone	516-477-3860
Email	brockel@optonline.net
Fiscal Officer Name	Lorraine Carafa
Title	DLC Fiscal Officer
Phone	(732)539-0743
Email	lcarafa@belmar.com
Project Manager	Peter Avakian
Title	Project Manager
Phone	(732)922-9229
Email	mmariano@leonsavakian.com

PARTNER INFORMATION

Partner Type	Environmental Consultant
Organization Name	Clean Waters Consulting, LLC
Street Address	20 Iron horse Drive
City	Ringoes
State	NJ
Zip code	08551
Contact Person Name	Stephen J. Souza, Ph.D.
Title	Owner
Phone	(609)306-5428
Email	sjsouza.cwc@gmail.com
Partner Type	Public Local Partner
Organization Name	Ocean Township
Street Address	99 Monmouth Rd,
City	Oakhurst
State	NJ
Zip code	07755
Contact Person Name	Dave Brown
Title	Town Manager
Phone	732-531-5000

Email manager@oceantwp.org

Partner Type	501c(3) Local Partner
Organization Name	Deal Lake Watershed Alliance (DLWA)
Contact Person Name	Laura McBride
Title	President
Email	laura.dlwanj@gmail.com

SECTION 2: PROJECT DETAILS

Project (RFP) Category

- Implementation of green infrastructure projects
- Watershed and lake management activities that improve water quality, control nutrients, and increase related recreational and conservation use of the lake.

Project Title (200 Characters)
Stormwater Quality Improvement Projects at Seaview Square Mall In the Headwater Reach of The Colonial Terrace Watershed of Deal Lake

Estimated Project Duration in Months:
36 Months

Total Grant Amount:
$925,00.00

Match (In-Kind)
$107,600.00 (10.4% of total project cost)

Match (Cash)
NA

Other Funding
NA

SECTION 3: PROJECT LOCATION

IS THIS PROJECT STATEWIDE? No
COUNTY(S)
Monmouth
MUNICIPALITY(S)
Ocean Township (an NJDEP recognized Env Justice Community)
Block 1 and 1.02 Lot Tax sheet 51

SECTION 4: LEGISLATIVE CONGRESSIONAL DISTRICTS

Legislative Districts:
11th State Legislative District
Congressional Districts:
4th Congressional District (Ocean Township)

SECTION 5: WATERBODY INFORMATION

List of all Waterbodies Affected by the Project and their Impairment Status

Assessment Unit Number(s):
02030104090030-01
Deal Lake HUC02030104090030
2016 303(d) Listing Pollutant: Non-Attaining – Aquatic Life, General; Fish consumption; Recreation
Appendix B: Pollutant Combinations Addressed by a USEPA-approved TMDL (Sublist 4A) - E.coli, Mercury in Fish Tissue, Total Phosphorus

Name of Water Quality Management Plan(s) Project is Implementing: *
The Deal Lake Watershed Protection Plan (approved by NJDEP 2011)

Primary Waterbody:*
Deal Lake

Status of TMDL for Primary Waterbody:*
Unattained TMDL#11010 E.coli (2003/2010); TMDL#37909 Mercury 2009/2006; TMDL# 9920 Tot Phos 2003/2006

SECTION 6: BEST MANAGEMENT PRACTICES INFORMATION

Work Categories*

- BMP Design
- BMP Implementation
- Education/Information
- GIS/Modeling

Sources of Nonpoint Source Pollution (NPS)

- Historical Pollutants
- Hydromodification
- Other NPS Pollution
- Urban Runoff/Stormwater

Type of NPS Implementation Project*

- Drainage Water Management
- Filtration Basin
- Nutrient Management
- Outreach And Education
- Bioretention basin
- Sediment Collector/Proprietary Treatment Device
- Sediment Forebay
- Vegetated Filter

Primary Pollutant(s) Targeted*

- Algal Growth/Chlorophyll
- Ammonia
- Nitrate
- Nitrogen
- Nutrients
- Pathogens (Coliform)
- Pathogens (E Coli)
- Pathogens (Other)
- Phosphorus
- Sedimentation-Siltation
- Suspended solids
- Total Kjeldahl Nitrogen
- Turbidity
- bacteria
- fecal coliform
- phosphate

Additional Pollutant(s) Addressed

- Metals (Aluminum)
- Metals (Arsenic)
- Metals (Cadmium)
- Metals (Chromium)
- Metals (Copper)
- Metals (Iron)
- Metals (Lead)
- Metals (Manganese)
- Metals (Mercury)

- Metals (Other)
- Metals (Selenium)
- Metals (Zinc)
- Oil and Grease
- PAH 1
- PAH 2
- PAH 2 and 3
- PAH 3

SECTION 7: PROJECT PROPOSAL

Project Background Summary Information* (5000 CHARACTERS)

The overall project goal is to use GI BMPS and other NJDEP approved stormwater management devices to reduce NPS loading and improve lake water quality. NPS loading is the primary cause for Deal Lake's water quality impacts. This has been documented through field and watershed pollutant loading data presented in reports published by the DLC in studies conducted for the USEPA, USACE and NJDEP dating back for 1985. NPS loading prevents the lake from fully attaining USEPA swimmable and fishable status, is the primary cause of the lake's eutrophication and its inability to consistently comply with State water quality standards as per NJAC 7:9B. Through previously completed 319(h) funded projects, the DLC has documented how GI BMPs used to pre-treat and reduce the volume of runoff directed into the lake's stormwater collection system or discharged directly into the lake's feeder streams mitigates localized flooding and reduces NPS pollutant loading.

The tributary entering the Colonial Terrace arm of Deal Lake (Figure 1) has historically been shown through field and modeled data to be the most significant source of NPS loading to the lake. This tributary not only has the highest concentrations of ammonia but is a major source of sediment loading to both the Colonial Terrace arm as well as the entire lake. In 2002 the DLC dredged the Colonial Terrace arm of the lake, but it has subsequently filled back in due to sediment loading attributable to stream bed and bank erosion. Additionally, the Colonial Terrace arm has the worst invasive macrophyte and algae related problems and is perpetually turbid due to the influx of sediment and planktonic algae blooms.

The watershed of the Colonial Terrace arm is extensively developed. Most of the impervious cover is in the form of large commercial tracts, including Seaview Square Mall. Most of the development in this watershed occurred prior to the promulgation of the New Jersey stormwater management rule. Thus, stormwater management is either fully absent or significantly lacking as compared to current NJDEP runoff treatment and control requirements.

This project will implement a preliminarily designed stormwater quality improvement project developed in concert with Ocean Township, Monmouth County and Seaview Square Mall. The proposed project is consistent with Stormwater Management funding priority as detailed in Section 5 (b) of the RFP. The proposed project involves the installation of several manufactured treatment devices (of various design and size) and the creation of a bioretention basin. The creation of the bioretention basin involves some basic grading that will result in the reconnection of the stream channel with the adjacent floodplain. The "basin" is by design intended to manage the water quality (1-year) event, which currently flows through the site uncontrolled and untreated. The smaller, more frequent storms have been shown to be responsible for most of the pollutant loading entering this arm of Deal Lake. Even more important is that the smaller storms cause the chronic downcutting and erosion of the stream channel responsible for the conveyance of much of the sediment load that has filled in the Colonial Terrace section of Deal Lake. Mitigating these flows and abating this loading will have a major positive impact on not only the Colonial Terrace arm of the lake but the lake as a whole. Creation of the bioretention basin will also result in the removal of dense stands of Japanese knotweed and Phragmites, and the replacement of these species with native plants species.

The combination of these stormwater management measures will reduce runoff volume, decrease pollutant loading, and mitigate peak flows for the more frequent storms (which have been shown to be responsible for most of the chronic stream bed and bank erosion and subsequent sediment infilling). It should be noted that this section of Deal Lake (west of the Sunset Landing Bridge) has been subject to increased climate-change linked flooding, as documented by the DLC (http://deallake.org/education/the-great-flood-of-2005/). The implementation of the proposed project will help prevent or mitigate localized flooding.

The DLC will also use this project as a means of continuing their GI BMP education and outreach efforts. This will involve several scheduled special presentations targeting the DLC community, public works officials and employees, and members of the local governing bodies and planning boards. Examples of past efforts can be viewed on the DLC website (http://deallake.org/education/).
The DLC and its project partner, Ocean Township have successfully implemented GI stormwater management techniques as part of both new development and the retrofit of existing stormwater collection and management systems. Past examples are provided in an appendix to this application.

Project Description * (15000 CHARACTERS)
The goal of this project is to use GI stormwater management measures to decrease NPS pollutant loading and lessen localized flooding. As noted, watershed of the Colonial Terrace arm of the lake is characterized by a large amount of impervious cover, mostly in the form of expansive commercial developments. The majority of development in this area pre-dates NJDEP stormwater regulations, and as such either fully lack or are characterized by stormwater management practices with minimal NPS load removal capability. Numerous studies conducted by the DLC document the inflow from this sub-watershed to be characterized by very high concentrations of ammonia, phosphorus and sediment, and periodically by elevated fecal coliform concentrations. The impacts of inadequate stormwater management manifesting in the Colonial Terrace arm include extensive sediment in-filling, dense invasive macrophyte growth, nuisance mat algae blooms and HABs. The lack of stormwater management within the Seaview Square development has also exacerbated the stream bed and bank erosion responsible for much of the infilling of the Colonial Terrace arm and well as its commonly turbid appearance. These impacts have been documented and field verified in studies conducted by the DLC dating back to 1983, NJDEP TMDL studies and reports published in 2003 and 2009, and recent CLONET water quality data collected by Monmouth University.
Our project meets the NJDEP's five project evaluation criteria as per RFP Appendix B as follows:
1. **Project Applicability** - Our project will implement a key project identified in the 2011 NJDEP approved Deal Lake WPP. Our project will reduce nonpoint source pollutant loading, the primary documented cause of the water quality impairments affecting all three lakes thereby yielding water quality, public health, and environmental benefits. Additionally, the project will reduce the volume of runoff released into the existing stormwater collection system, thereby decreasing the occurrence and severity of localized flooding caused by the 1, 2, and 5-yr events. Furthermore, the project serves NJDEP recognized Overburdened Communities and involves the direct engagement of said communities in the project's implementation. Overall our project builds on the success and improvements achieved by the DLC in the completion of other NJDEP 319(h) funded projects.
2. **Project Readiness** – We have already developed concept plans (which are attached as an appendix to this application), including the siting locations for GI BMPS and MTDs and preliminary grading details for the bioretention basin. The key project partners, including the owners of Seaview Square Mall, were involved in the preparation of the conceptual plans. We therefore are confident that the proposed project can be completed within the 36-month project schedule.
3. **Likelihood of Success** – The DLC has an excellent record completing NJDEP funded projects on time and within budget. The most recently completed 319(h) implementation project received a Technical Excellence Award from the North American Lake Management Society. Examples of past 319(h) projects completed by the DLC on time and within budget are provided in an appendix to this application. Additionally, this project has already been developed in concept with supporting draft plans and vetted with both Ocean Township, Monmouth County and Seaview Square Mall.
4. **Cost Share/Matching Funds/Leveraging of other Funding Sources** – Our project leverages $107,600.00 in in-kind services that will be provided over the course of this project by the DLC and project partners (refer to in-kind table provided with budget details in Section 8).
5. **Monitoring and Evaluation Information** – The DLC will use STEPL or a similar NPS model approved by the NJDEP to quantify the project's pollutant load reductions and submit all other supporting information to the NJDEP as outlined in the RFP's Appendix E, Final Report Guidelines. Likewise, reductions in peak flow and runoff volumes

attributable to the bioretention basin will be computed using standard hydrologic/hydraulic analytical tools approved by the NJDEP (e.g., TR-55, PondPac, etc.). The pollutant load reduction results generated through the use of STEPL or a similar NPS modeling will be provided in both the EPA Success Stories prepared over the course of this project as well as in the Final Report. Likewise, peak flow and volume reduction data generated using the standard hydrologic/hydraulic analytical tools will also be presented and discussed in both the EPA Success Stories prepared over the course of this project as well as in the Final Report.

6. **Long-term Maintenance** – A Maintenance Plan as per Appendix F of the RFP will be prepared for each GI BMP. Ocean Township is committed to validating the maintenance of the proposed GI BMPs by the owners of Seaview Square Mall. Seaview Square Mall currently conducts periodic street sweeping and maintains the mall's existing stormwater collection system under the oversight of Ocean Township.

The following details the objectives and supporting tasks of each project element. The Objectives and Tasks are also presented in Tables 1A -1E.

Objective 1/Tasks 1-3B: Data Collection (Engineering and Ecological Data, Draft/Final Designs, Specifications and Bid Documents). Tasks 1-3B pertain to the data needed to complete the final sizing of the proposed GI BMPs, MTDs and Bioretention Basin. This will involve site-specific survey/topographic data, engineering sizing, hydrologic modeling and baseline ecological data collection and analysis. As previously noted, LSA has already conducted an analysis of the existing stormwater collection system and have already identified the locations suitable for the installation of MTDs and GI BMPs. LSA has also conducted preliminary grading and related sizing analyses for the proposed Bioretention Basin. However, this work needs to be reviewed and finalized. LSA will submit draft designs of the GI BMPS and Bioretention Basin to NJDEP's assigned BEAR Project Manager for review and approval. Once approved detailed plans and specifications will be prepared along with contractor bid documents, which will be reviewed and approved by Ocean Township. Once approved by both the NJDEP and Ocean Township, the DLC will advertise for bids and select qualified contractors. We expect this phase of the project to be completed during year 1 of the project.

Objective 2/Tasks 4-6: Construction/Installation of GI BMPs As per Tasks 4-6, the construction/installation of the proposed GI BMPs will begin in month 12. We expect to have all the projects, including the construction of the Bioretention Basin, completed by month 28 of the project. This timeline accounts for NJDEP's approval of plans, any permits needed for the construction of the Bioretention Basin, the review of bids by the DLC and Ocean Township, contracting by the DLC with the successful bidders, receiving materials from suppliers, and the actual time needed for the installation/construction of the GI BMPs. The actual work to be conducted by the selected bidders will begin upon the finalization of all contractual matters and receipt of the NJDEP's approval to proceed. LSA and Clean Waters Consulting will provide contractor oversight services.

Objective 3 (Measures of Success and Reporting) Most of the effort associated with the completion of Tasks 7-9 pertains to the post-implementation measurement of success and the preparation of various project reports (Table 1C). The post-installation pollutant load reductions for each green infrastructure BMP will be quantified using either the USEPA STEPL model or another NJDEP approved public-domain load reduction model. The resulting data will serve as the foundation for the preparation of the USEPA Success Story developed for each installation and later in the preparation of the Draft and Final Reports. Over the course of the project, Project Success will also be documented and communicated with the NJDEP and the project partners through the preparation of the Quarterly Technical Reports.

In month 30 work will begin on the Draft Final Report, which will be forwarded to the NJDEP for review and comment. Upon receipt from NJDEP of all comments the DLC will prepare the Final Report, which will satisfy all of the report requirements identified in Appendix E of the RFP. Included with the Final Report will be the plans and specifications for the FWIs and each GI BMP, the Operation and Maintenance Plan for the FWIs and GI BMPs, the individual EPA Success Stories for each project, and examples of the education and outreach materials prepared for this project. Any GIS data or maps prepared for this project will follow the Department's 2013 Mapping and Digital Data Standards. Ten (10) bound copies and 20 CDs of the Final Report will be prepared and subsequently circulated by the DLC to the NJDEP and Ocean Township.

Objective 4 Public Education and Outreach – Completion of Task 12 will be the responsibility of the DLC, with assistance from Clean Waters Consulting and LSA. From Month 1 through Month 36, the DLC will implement a variety of public outreach and education initiatives, the objectives of which will be four-fold; meet the reporting requirements of the NJDEP, keep stakeholders and public apprised of project progress, accomplishments, and completion, educate the community about GI stormwater benefits, and engage the community to the fullest extent possible in each project. The DLC will prepare and circulate environmental education materials, coordinate public presentations and presentations to public works, planning board and elected officials on the merits of green infrastructure. The DLC will conduct multiple lake clean-ups, post educational materials on their respective websites, and distribute educational information via their social media sites. During the DLC's monthly meetings, and/or special meetings conducted in concert by the DLC with Ocean Township, lake and watershed protection information will be supplied to the public, examples of which are available on the DLC website. Educational signage, reviewed and approved by the NJDEP, will be erected at each green infrastructure BMP site.

As part of Task 10 the DLC will invite from each of the seven municipalities that are part of the DLC, public works personnel, land use board members and elected local officials to three "Informational Breakfast Meetings", the purpose of which will be to promote the value of GI stormwater management and demonstrate its role in the improvement of the lake's water quality and mitigation of watershed-wide flooding. The presentations will include examples of GI BMPs as part of new and redevelopment projects, discussion of the superior performance of GI BMPs relative to standard stormwater management techniques and review the special maintenance needs of GI BMPs. We have had great success in the past with such breakfast meetings.

Objective 5 - Project Administration - All project administration will be provided by the Deal Lake Commission as part of Task 11 of this project. Quarterly Technical and Fiscal Management reports, including all required fiscal documentation, will be prepared and submitted by the DLC with the assistance of Clean Waters Consulting.

Applicant Description * (5000 CHARACTERS)

Consistent with the NJDEP's criteria for **Eligible Entities**, the Deal Lake Commission (DLC) is a "designated water quality management planning agency." As per the DLC's official charter, since the early 1980's the DLC has been the **State's appointed "steward" of Deal Lake**. Representing the interests of the community, the DLC's commissioners are appointed by each municipality located within the lake's boundaries and abutting the lake. This project is located within Ocean Township. The Township is a project partner.

Over the past 35+ years the DLC has implemented several highly successful watershed-based initiatives, each one conducted to reduce nonpoint source pollutant loading to Deal Lake and its tributaries. The most recent was a 319(h) project (WM18-016) conducted in concert with the Sunset Lake Commission and the Wesley Lake Commission. As documented in the USEPA Success Stories submitted as part of previously completed green infrastructure stormwater management projects, the DLC's efforts have:

- Measurably decreased pollutant loading to Deal Lake,
- Decreased the susceptibility of the lake to harmful algae blooms,
- Decreased and mitigated climate change related flooding impacts, and
- Increased and improved the quality and diversity of the Deal Lake ecosystem's wetland, riparian and aquatic habitats.

With the combination of 319(h) and Army Corp of Engineering (USACE funding) the DLC has:

- Prepared Section 314 and 319 comprehensive lake restoration and watershed management plans,
- Constructed and installed green infrastructure stormwater management BMPs,
- Stabilized and revegetated section of the lake's shoreline using living shoreline techniques,
- Mitigated flood and storm surge impacts,

- Removed accumulated sediment through large-scale dredging projects, and
- Actively engaged the community through education and outreach programs.

The successful completion of these projects demonstrates the DLC's ability to satisfy NJDEP's **Eligible Entity Capabilities** with respect to:

- The capability, expertise, and environmental experience to perform the proposed work;
- The ability and authority to implement the proposed project(s);
- The ability to establish and maintain partnerships to ensure project implementation; and
- Through their municipal partners the ability to provide long-term O&M and management.
- Proven 319 project partner with NJDEP, having completed past projects on time and within budget, and consistent with those projects' goals and objectives.

Leon S. Avakian, Inc. will serve as the Engineer of Record and Technical Project Manager. Clean Waters Consulting, LLC will provide the environmental and NJDEP permit technical support needed by the DLC to complete this project. Both have provided similar services as part of past 319 projects, including, but not limited to RP 04-082 and WM18-016.

Will this Project have Water Quality Monitoring that will require a QAPP? * No

Monitoring and Evaluation Information * (5000 CHARACTERS)
The DLC will use STEPL or a similar NPS model approved by the NJDEP to quantify the project's pollutant load reductions and submit all other supporting information to the NJDEP as outlined in the RFP's Appendix E, Final Report Guidelines.

SECTION 8: IMPLEMENTATION SCHEDULE AND BUDGET

Objective 1*: Develop Engineering and Environmental Data for Preparation of Draft and Final NJDEP Approved Designs for Green Infrastructure BMPs

Tasks	Project Deliverables	Responsible Party	Timeline		Grant $	Match $
			Start Month	End Month		
1.Obtain and review existing data, plans, reports and background info local stormwater collection system in each project area.	Updated stormwater collection system data including catch basin/pipe dimensions and inverts	LSA	1	3	$10,000	
2. Develop site survey and conduct hydrologic modeling for proper sizing of GI BMPs	Design criteria for sizing and selection of GI BMPs	LSA	1	6	$30,000	
3A. Complete sizing analysis for GI BMPs. Review with NJDEP and project partners.	Properly sized, sited, and designed GI BMPs	LSA	6	12	$40,000	

Objective 2 Implement/Install/Construct Green Infrastructure BMPs

Tasks	Project Deliverables	Responsible Party	Timeline		Grant $	Match $
			Start Month	End Month		
4. Advertise bids to install/construct GI BMPs. Review bids, select qualified contractor and/or supplier	All work associated with finalization of construction and bid specifications, bid review and contractor selection	LSA	6	24	$10,000	
5. Implement projects	Install GI SW BMPs and MTD. Construct bio-retention basin	Contractors TBD	12	28	$637,400	
6. Contractor Oversite	Work conducted as per bid specifications	Clean Waters Consulting & LSA	12	28	CWC - $5,250 LSA - $45,000	

Objective 3 Measures of Success and Reporting

Tasks	Project Deliverables	Responsible Party	Timeline		Grant $	Match $
			Start Month	End Month		
7. Develop data used to document/ measure success	Conduct post-installation modeling of FWIs and GI BMPs. Confirm planting success of FWIs.	Clean Waters Consulting	14	34	$14,000.00	
8. Interim Reports	Technical documents including Quarterly Reports, EPA Success Stories and Draft Final Reports	Clean Waters Consulting	1	36	$21,000.00	
9. Final Report	Address all NJDEP and Project Partner Comments and Edits, Prepare and Submit Final Report	Clean Waters Consulting	2	36	$15,750	

Objective 4 Public Education and Outreach

Task	Project Deliverables	Responsible Party	Timeline		Grant $	Match $
			Start Month	End Month		
10. Public education and outreach and related activities	Conduct quarterly special meetings to keep partners and public apprised of project success, prepare and submit quarterly reports, develop and install project specific signage, disseminate information on green infrastructure, NPS pollution reduction and benefits of floating wetland islands via DLC website.	Clean Waters Consulting, & LSA	1	36	$5,800.00 LSA - $10,000	
	Production of educational materials and signage	Contractor TBD	1	36	$8,000.00	

Objective5 Project Management, Project Administration and Reporting

Task	Project Deliverables	Responsible Party	Timeline		Grant $	Match $
			Start Month	End Month		
11. Project Administration. All responsibilities associated with the administration of the grant and coordination of stakeholders and contractors, preparation of Quarterly Reports, fiscal management and reporting, interfacing with NJDEP. Final audit conducted by a third-party, certified auditor.	Project management and administration Final fiscal audit	Deal Lake Commission	1	36	$38,200.00	

Details of In-Kind Match – The In-kind services provided for this project as detailed in the following table are cumulative over the project's 36-month timeframe.

Summary of In-Kind Services and Value of In-Kind Funding Associated With These Services					
In-kind Service Provider	Meetings, Coordination Of Public Hearings,	Review Project Design, Bid Specs, Contractor Quals	Review Measures of Success, Quarterly and Interim reports and Final Deliverables[1]	Shoreline Cleanup[2] MTD / GI BMPs Clean Outs[3]	Other Donated Services[4]
DLC	$36,000	$4,000	$6,000	$25,200	$12,600
Deal Lake Watershed Alliance	$1,000	0.00	0.00	$12,600	0.00
Seaview Square Mall	$0.00	0.00	0.00	$5,200	0.00
Ocean Township	$3,000	$2,000	0.00	0.00	0.00
Total In-kind	**$40,000.00**	**$6,000.00**	**$6,000.00**	**$43,000.00**	**$12,600.00**
Grand Total of In-Kind Funding					**$107,600.00**

1 – Based on 36 meetings, 2 hrs./month (@$100/hr) at minimum 5 DLC Commissioners and Clerk time. Zoom meetings and/or Ocean Township meeting room; minimum of 36 meetings. Use of Neptune Township/Asbury Park meeting room for special meetings. Plus additional coordinating meeting with Monmouth University regarding CLONET testing of lake and tributaries.

2 – 6 shoreline cleanups, 5 DLC staff and 30 additional volunteers, 4 hrs./person @$30/hr (does not include donated time of municipal DPWs to pick up and dispose of collected debris). DLC coordination, planning and advertising of events.

3 – DLWA and Seaview Square Mall maintenance of existing stormwater collection system, , and watershed wide maintenance of other existing GI BMPs installed as part of previous grants. Cost of personnel and equipment over 3 years.

4 – Various types of in-kind services provided by DLC and community over 36 month timeframe of project, this has included the DLCs legal review of all contracts related to the maintenance and management of the lake, the cost of invasive

aquatic species and HAB management conducted with local funds, assistance with the maintenance of the flume, invasive species control at the Asbury Park boat launch, the annual carp fishing derby, water quality monitoring conducted by Monmouth University and CLONET volunteers.

SECTION 9: BUDGET DETAILS

Type of Cost	**Budget Justification**	**Budget $**
Salary	N/A	$0.00
Fringe	N/A	$0.00
DLC Clerk and Fiscal Manager (not DLC paid staff)	Fiscal administration of grant, disbursement of payments, advertising of DLC monthly meeting and special meetings, DLC meeting coordination, recording of meeting minutes. Coordination with NJDEP	$36,000.00
Clean Waters Consulting, LLC	Refer to Tasks 5, 6A, 9, and 10	$61,800.00
Leon S. Avakian Engineering	Refer to Tasks 1, 2, 3A, 4, 6, and 10	$145,000.00
Construction Contractors TBD	Refer to Task 5 – Install/Construct GI BMPs	$637,400.00
Educational signage and materials	Printing contractor TBD	$8,000.00
Supplies	N/A	$0.00
Monitoring	N/A	$0.00
Training	N/A	$0.00
Travel	N/A	$0.00
Audit	DLC hired, Professional Auditor. Project closeout audit and report to DLC and NJDEP	$2,200.00
Indirect	N/A	$0.00
	Total Grant Amount	**$890,400.00**

In-Kind Match	Refer table provided above for details of in-kind match	**$107,600.00**
Cash Match		$0.00
Other Funding		$0.00

SECTION 10: SUPPLEMENTAL INFORMATION

Letter(s) of Resource Commitment

- Ocean Township

Maps/Plans

- Deal Lake project locations
- Draft plans of project as prepared by LSA

Other

- Letters of Project Support
- Photos of previously competed 319(h) projects
- Table detailing In-Kind Match (Amounts and Responsible Party provided above)

Appendix A
Site Map

Appendix B
Preliminary Project Plan as Prepared by Leon S. Avakian, Inc.

Appendix C
Existing Conditions Photographs

Examples of Existing Stormwater Inlet and Outfall

Existing Conditions of Proposed Bioretention Basin Area

Appendix D
Photographs of Previous GI Stormwater Projects Implemented by the Deal Lake Commission

Comstock Avenue MTD Installation

William F. Larkin Golf Course Bioinfiltration Basin

Sunset Avenue/Webb Street MTD installation

DLC Volunteers Planting Asbury Park Bus Transit Station Rain Garden

DLC Volunteers Planting and Installing Floating Wetland Islands

Memorial Drive Asbury Park MTD Installation

Asbury Park High School Students Participating in Installation of Memorial Drive MTD

Appendix E
Letters of Resource Commitment
And
Letters of Support