RESOLUTION # 71-18

A Resolution Awarding a Non-Fair and Open Contract to Root 24 Inc. for the Wet Well Cleaning of the Brielle and Sea Girt Pump Stations

WHEREAS, the South Monmouth Regional Sewerage Authority has an unexpected need to perform wet well cleaning services at the Brielle and Sea Girt Pump Stations as a Non-fair and Open contract pursuant to the provisions of N.J.S.A. 19:44A-20.4; and

WHEREAS, Root 24 of Camden, New Jersey hereinafter referred to as the Contractor has indicated they will perform aforesaid services; and

WHEREAS, the CFO/QPA has determined and certified in writing that the value of the service will exceed the cumulative $17,500.00 annual Pay to Play threshold for this contractor, but not exceed the $40,000.00 Public Bidding Threshold for entities employing a qualified purchasing agent; and

WHEREAS, the Contractor has completed and submitted a Business Entity Disclosure Certification which certifies that the Contractor has not made any reportable contributions to a political or candidate committee in any municipality within the South Monmouth Regional Sewerage Authority Service Area in the previous one year, and that the contract will prohibit the Contractor from making any reportable contributions through the term of the contract; and

WHEREAS, The Chief Finance Officer has certified that there are sufficient funds available to pay the compensation for said procurement according to N.J.A.C. 5:30-5.4.

NOW THEREFORE, BE IT RESOLVED that
1. the Commissioners of the South Monmouth Regional Sewerage Authority authorizes the Executive Director to enter into a contract with the Contractor as described herein.
2. the Business Disclosure Entity Certification and the Determination of Value be placed on file with this resolution.
3. the public notice of the award of said contract shall be advertised publicly by the Authority, as required by law.

LASTLY BE IT RESOLVED by the South Monmouth Regional Sewerage Authority that the statements contained in the foregoing preamble be and are hereby incorporated into this Resolution as if more fully set forth herein at length.

CERTIFIED TO BE A TRUE COPY OF A RESOLUTION Duly adopted by the SOUTH MONMOUTH REGIONAL SEWERAGE AUTHORITY AT ITS REGULAR OPEN PUBLIC MEETING ON 09-13-18.

[Signature]
JOSEPH C. MAY - SECRETARY
RESOLUTION #72-18

2018 Revenue Fund

BE IT RESOLVED, by the South Monmouth Regional Sewerage Authority that Revenue Fund Requisition #09-18 in the total amount of $487,225.32 is hereby approved for transfer as follows:

1. That $281,209.32 is transferred from the Revenue Fund to the Operating Fund in satisfaction of all approved bills attached hereto and made a part thereof as of this date.

2. That $206,016.00 is transferred from the Revenue Fund to the Payroll Fund to reimburse the Authority for the prior month’s gross payroll and employer payroll taxes.

BE IT FURTHER RESOLVED, that bills listed in the aforesaid Revenue Fund Requisition be and are hereby approved for payment from the Operating and Payroll Funds.

CERTIFIED TO BE A TRUE COPY OF A RESOLUTION DULY ADOPTED BY THE SOUTH MONMOUTH REGIONAL SEWERAGE AUTHORITY AT ITS REGULAR OPEN PUBLIC MEETING ON 09-13-18.

BY:

JOSEPH C. MAY — SECRETARY
2018 REVENUE FUND REQUISITION

Requisition #09-18
Total of Requisition: $487,225.32
Date: September 13, 2018

CERTIFICATION

I hereby certify, on behalf of the South Monmouth Regional Sewerage Authority, that the expenses listed on the attached Revenue Fund Requisition have been approved for payment by the Authority. I further certify that (1) the expenses listed are reasonable, (2) the amounts being requisitioned for expenses plus amounts previously requisitioned during the present fiscal quarter for expenses classifiable in the same accounts do not exceed the amounts budgeted for those accounts for the quarter in the current budget on file with the Trustee.

SOUTH MONMOUTH REGIONAL SEWERAGE AUTHORITY

BY:  
MARY L. BURNE – CHAIRMAN
SOUTH MONMOUTH REGIONAL SEWERAGE AUTHORITY
Supplemental Information to Requisition # 09 - 18
12-Sep-18

Total amount of checks 209,572.22

Plus:
State Health Benefit Programs - Medical 37,935.87
State Health Benefit Programs - Rx 9,438.71
State Health Benefit Programs - Retirees 21,324.19
BC/BS - Dental Program 2,178.53
VSP - Eye Care 759.80

Re-imburse SMRSA for August, 2018 Gross Payroll 192,122.46
Re-imburse SMRSA for August, 2018 Employer Portion Federal Payroll Taxes 13,893.54

SUB - TOTAL 277,653.10

Adjustments:
0.00

SUB - TOTAL 0.00

REQUESTED AMOUNT OF WIRE TRANSFER 487,225.32

WIRE INSTRUCTIONS:

A/P Checks 209,572.22
SHBP 68,698.77
Dental/ Vision 2,938.33
Adjustments 0.00

TO OPERATING ACCOUNT 281,209.32

Payroll & Related Taxes 206,016.00
Adjustments 0.00

TO PAYROLL ACCOUNT 206,016.00

REQUESTED AMOUNT OF WIRE TRANSFER 487,225.32

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Report Totals

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RESOLUTION #73-18

Construction Project Fund

BE IT RESOLVED, by the South Monmouth Regional Sewerage Authority that bills listed in Construction Project Fund Req. #09-18 and totaling $429,636.61 be and are hereby approved for payment from the Construction Project Fund.

CERTIFIED TO BE A TRUE COPY OF A RESOLUTION Duly adopted by the South Monmouth Regional Sewerage Authority at its regular open public meeting on 09-13-18.

[Signature]
JOSEPH C. MAY - SECRETARY
# SOUTH MONMOUTH REGIONAL SEWERAGE AUTHORITY
## CONSTRUCTION PROJECT FUND

Requisition No. CPF #09-18  
Date: September 13, 2018

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**TOTAL** $429,636.61

IN CONNECTION THEREWITH, WE CERTIFY THAT THE ABOVE OBLIGATIONS TO BE PAID WERE PROPERLY INCURRED BY THE AUTHORITY AND ARE PROPER CHARGES AGAINST THE CONSTRUCTION FUNDS. THE AMOUNTS TO BE PAID BY THIS REQUISITION ARE DUE AND UNPAID AND THERE ARE NO KNOWN LIENS OR OTHER CLAIMS AFFECTING THE RIGHT TO PAYMENT WHICH SHOULD BE SATISFIED AND DISCHARGED BEFORE PAYMENT IS MADE OR WHICH WILL NOT BE DISCHARGED BY THIS PAYMENT.

SOUTH MONMOUTH REGIONAL SEWERAGE AUTHORITY

BY: KEVIN LYNCH - TREASURER
RESOLUTION #74-18

A Resolution to Award the South Monmouth Regional Sewerage Authority Contract for the Furnishing and Delivery of Bulk Sodium Hypochlorite for the Year 2019 to JCI Jones Chemicals, Inc.

WHEREAS, the South Monmouth Regional Sewerage Authority advertised for bids on Tuesday, July 31, 2018 in the Asbury Park Press and the Authority's Website pursuant to the Local Public Contracts Law, 40A:11-1 et seq., and Pay to Play Laws, N.J.S.A. 19:44A-20.4, as a Fair and Open Process, for the Furnishing and Delivery of Bulk Sodium Hypochlorite for the year 2019; and

WHEREAS, four bids were received and read aloud on Wednesday, August 29, 2018, and further examined by the Authority's Attorney and Staff; and

WHEREAS, it was determined by the Authority that the lowest responsive bid was that of JCI Jones Chemicals, Inc., 1765 Ringling Blvd, Sarasota, Florida 34236 at a contract price of $0.0875 per pound.

NOW, THEREFORE, BE IT RESOLVED by the South Monmouth Regional Sewerage Authority that;

1. The contract for the furnishing and delivery of Bulk Sodium Hypochlorite for the year 2019 shall be awarded to JCI Jones Chemicals, Inc., 1765 Ringling Blvd, Sarasota, Florida 34236 at the contract amount of $0.0875 per pound as provided for in the contract documents.

2. The Financial Officer of the Authority will certify that upon approval of the 2019 Income and Appropriation Budgets there will be sufficient funds available to pay the compensation for said services.

3. That the Executive Director be and is hereby authorized and directed to execute said contract on behalf of the Authority.

4. That the Executive Director be and is hereby authorized and directed to take all necessary and required actions to comply with the Public Notification of a contract award in compliance with the Local Public Contracts and Pay to Play rules and regulations.

BE IT FURTHER RESOLVED that public notice of the award of said contract shall be published in the Authority's Official Newspaper(s) and website, as required by law.

LASTLY BE IT RESOLVED by the South Monmouth Regional Sewerage Authority that the statements contained in the foregoing preamble be and are hereby incorporated into this Resolution as if more fully set forth herein at length.

CERTIFIED TO BE A TRUE COPY OF A RESOLUTION Duly ADOPTED BY THE SOUTH MONMOUTH REGIONAL SEWERAGE AUTHORITY AT ITS REGULAR OPEN PUBLIC MEETING ON 09-13-18.

JOSEPH C. MAY -- SECRETARY
RESOLUTION #75-18

A Resolution to Award the South Monmouth Regional Sewerage Authority Contract for the Furnishing and Delivery of Magnesium Hydroxide, Thioguard for the Year 2019 to Premier Magnesia, LLC

WHEREAS, the South Monmouth Regional Sewerage Authority advertised for bids on Tuesday, July 31, 2018 in the Asbury Park Press and the Authority’s Website pursuant to the Local Public Contracts Law, 40A:11-1 et seq., and Pay to Play Laws, N.J.S.A. 19:44A-20.4, as a Fair and Open Process, for the Furnishing and Delivery of Magnesium Hydroxide, Thioguard for the year 2019; and

WHEREAS, bids were received and read aloud on Wednesday, August 29, 2018, and examined by the Authority’s Attorney and Staff; and

WHEREAS, it was determined by the Authority that the lowest responsive bid was that of Premier Magnesia, LLC, 1275 Drummers Lane, Suite 102, Wayne, PA, 19087 at a contract price of $0.316 per dry pound.

NOW, THEREFORE, BE IT RESOLVED by the South Monmouth Regional Sewerage Authority that;

1. The contract for the Furnishing and Delivery of Magnesium Hydroxide, Thioguard for the year 2019 shall be awarded to Premier Magnesia, LLC, 1275 Drummers Lane, Suite 102, Wayne, PA, 19087, at the contract amount of $0.316 per dry pound as provided for in the contract documents.

2. The Financial Officer of the Authority will certify that upon approval of the 2019 Income and Appropriation Budgets there will be sufficient funds available to pay the compensation for said services.

3. That the Executive Director be and is hereby authorized and directed to execute said contract on behalf of the Authority.

4. That the Executive Director be and is hereby authorized and directed to take all necessary and required actions to comply with the Public Notification of a contract award in compliance with the Local Public Contracts and Pay to Play rules and regulations.

BE IT FURTHER RESOLVED that public notice of the award of said contract shall be published in the Authority’s Official Newspaper(s) and website, as required by law.

LASTLY BE IT RESOLVED by the South Monmouth Regional Sewerage Authority that the statements contained in the foregoing preamble be and are hereby incorporated into this Resolution as if more fully set forth herein at length.

CERTIFIED TO BE A TRUE COPY OF A RESOLUTION DULY ADOPTED BY THE SOUTH MONMOUTH REGIONAL SEWERAGE AUTHORITY AT ITS REGULAR OPEN PUBLIC MEETING ON 09-13-18.

JOSEPH C. MAY—SECRETARY
RESOLUTION #76-18

A Resolution to Award the South Monmouth Regional Sewerage Authority Contract for the Removal and Hauling of Sewer Sludge for the Year 2019 to Accurate Waste Removal Systems, Inc.

WHEREAS, the South Monmouth Regional Sewerage Authority advertised for bids on Tuesday, July 31, 2018 in the Asbury Park Press and the Authority’s Website pursuant to the Local Public Contracts Law 40A:11-1 et seq., and Pay to Play Laws, N.J.S.A. 19:44A-20.4, as a Fair and Open Process for the Removal and Hauling of Sewer Sludge for the year 2019; and

WHEREAS, four bids were received and read aloud on Wednesday, August 29, 2018 and examined by the Authority’s Attorney and Staff; and

WHEREAS, it was determined by the Authority that the lowest responsive bid was that of Accurate Waste Removal Systems, Inc., 160 Gold Mine Road, Mt. Olive, New Jersey, 07836 at a unit price of $0.0450 per gallon for the Removal and Hauling of Liquid Sewer Sludge to Stony Brook Regional Sewerage Authority; and at a unit price of $0.0495 per gallon for the Removal and Hauling of Liquid Sewer Sludge to Passaic Valley Sewerage Commission; and

WHEREAS, the Authority, under separate resolutions will entered into inter-local agreements for both Stony Brook Regional Sewerage Authority and Passaic Valley Sewerage Commission as disposal sites.

NOW, THEREFORE, BE IT RESOLVED by the South Monmouth Regional Sewerage Authority that:

1. The contract for the Removal and Hauling of Sewer Sludge for the year 2019 shall be awarded to Accurate Waste Removal Systems, Inc., 160 Gold Mine Road, Mt. Olive, New Jersey, 07836 at a rate of $0.0450 per gallon to Stony Brook Regional Sewerage Authority; and $0.0495 per gallon to Passaic Valley Sewerage Commission as provided for in the contract documents.

2. The Financial Officer of the Authority will certify that upon approval of the 2019 Income and Appropriation Budgets there will be sufficient funds available to pay the compensation for said services.

3. That the Executive Director be and is hereby authorized and directed to execute said contract on behalf of the Authority.

4. That the Executive Director be and is hereby authorized and directed to take all necessary and required actions to comply with the Public Notification of a contract award in compliance with the Local Public Contracts and Pay to Play rules and regulations.
BE IT FURTHER RESOLVED that public notice of the award of said contract shall be published in the Authority's Official Newspaper(s) and website, as required by law.

LASTLY BE IT RESOLVED by the South Monmouth Regional Sewerage Authority that the statements contained in the foregoing preamble be and are hereby incorporated into this Resolution as if more fully set forth herein at length.

CERTIFIED TO BE A TRUE COPY OF A RESOLUTION DULY ADOPTED BY THE SOUTH MONMOUTH REGIONAL SEWERAGE AUTHORITY AT ITS REGULAR OPEN PUBLIC MEETING ON 09-13-18.

[Signature]
JOSEPH C. MAY – SECRETARY
RESOLUTION #77-18

A Resolution to Award South Monmouth Regional Sewerage Authority Contract for Electrical Diagnostic, Troubleshooting and Repair Services for the Year 2019 to Municipal Maintenance Company

WHEREAS, the South Monmouth Regional Sewerage Authority advertised for bids on Tuesday, July 31, 2018 in the Asbury Park Press and the Authority’s Website pursuant to the Local Public Contracts Law 40A:11-1 et seq., and Pay to Play Laws, N.J.S.A. 19:44A-20.4, as a Fair and Open Process for Electrical Diagnostic, Troubleshooting and Repair Services for the year 2019; and

WHEREAS, bids were received and read aloud on Wednesday, August 29, 2018, and further examined by the Authority’s Attorney and Staff; and

WHEREAS, it was determined by the Authority that the lowest responsive bid was that of Municipal Maintenance Company, 1352 Taylor Lane, Cinnaminson, New Jersey, 08077 in accordance with their schedule of prices as provided for in the contract documents.

NOW, THEREFORE, BE IT RESOLVED by the South Monmouth Regional Sewerage Authority that;

1. The contract for Electrical Diagnostic, Troubleshooting, and Repair Services for the year 2019 shall be awarded to Municipal Maintenance Company, 1352 Taylor Lane, Cinnaminson, New Jersey 08077 in accordance with their schedule of prices as provided for in the contract documents.

2. The Financial Officer of the Authority will certify that upon approval of the 2019 Income and Appropriation Budgets there will be sufficient funds available to pay the compensation for said services.

3. That the Executive Director be and is hereby authorized and directed to execute said contract on behalf of the Authority.

4. That the Executive Director be and is hereby authorized and directed to take all necessary and required actions to comply with the Public Notification of a contract award in compliance with the Local Public Contracts and Pay to Play rules and regulations.

BE IT FURTHER RESOLVED that public notice of the award of said contract shall be published in the Authority’s Official Newspaper(s) and website, as required by law.

LASTLY BE IT RESOLVED by the South Monmouth Regional Sewerage Authority that the statements contained in the foregoing preamble be and are hereby incorporated into this Resolution as if more fully set forth herein at length.

CERTIFIED TO BE A TRUE COPY OF A RESOLUTION DULY ADOPTED BY THE SOUTH MONMOUTH REGIONAL SEWERAGE AUTHORITY AT ITS REGULAR OPEN PUBLIC MEETING ON 09-13-18.

JOSEPH C. MAY – SECRETARY
RESOLUTION #78-17

A Resolution to Award South Monmouth Regional Sewerage Authority Contract for Equipment Repair, Rental, Maintenance and Installation Services for the Year 2019 to Shafts & Sleeves Company, Inc.

WHEREAS, the South Monmouth Regional Sewerage Authority advertised for bids on Tuesday, July 31, 2018 in the Asbury Park Press and the Authority’s Website pursuant to the Local Public Contracts Law 40A:11-1 et seq., and Pay to Play Laws, N.J.S.A. 19:44A-20.4, as a Fair and Open Process for Equipment Repair, Maintenance and Installation Services for the year 2019; and

WHEREAS, two bids were received and read aloud on Wednesday, August 29, 2018, and further examined by the Authority’s Attorney and Staff; and

WHEREAS, it was determined by the Authority that the lowest responsive bid was that of Shafts and Sleeves Company, Inc., US Highway 130 North, Bordentown, NJ 08505 in accordance with their schedule of prices as provided for in the contract documents.

NOW, THEREFORE, BE IT RESOLVED by the South Monmouth Regional Sewerage Authority that;

1. The contract for Equipment Repair, Rental, Maintenance, and Installation Services for the year 2019 shall be awarded to Shafts and Sleeves Company, Inc., US Highway 130 North, Bordentown, NJ 08505 in accordance with their schedule of prices as provided for in the contract documents.

2. The Financial Officer of the Authority will certify that upon approval of the 2019 Income and Appropriation Budgets there will be sufficient funds available to pay the compensation for said services.

3. That the Executive Director be and is hereby authorized and directed to execute said contract on behalf of the Authority.

4. That the Executive Director be and is hereby authorized and directed to take all necessary and required actions to comply with the Public Notification of a contract award in compliance with the Local Public Contracts and Pay to Play rules and regulations.

BE IT FURTHER RESOLVED that public notice of the award of said contract shall be published in the Authority’s Official Newspaper(s) and website, as required by law.

LASTLY BE IT RESOLVED by the South Monmouth Regional Sewerage Authority that the statements contained in the foregoing preamble be and are hereby incorporated into this Resolution as if more fully set forth herein at length.

CERTIFIED TO BE A TRUE COPY OF A RESOLUTION DULY ADOPTED BY THE SOUTH MONMOUTH REGIONAL SEWERAGE AUTHORITY AT ITS REGULAR OPEN PUBLIC MEETING ON 09-13-18.

JOSEPH M. MAY SECRETARY
RESOLUTION #79-18

A Resolution Awarding a Professional Engineering Services Contract to CDM Smith, Inc. for the Development of Force Main/Outfall Pipe Condition Assessment Plan (Phase 1)

WHEREAS, in accordance with the South Monmouth Regional Sewerage Authority’s (SMRSA) Asset Management goals and objectives, the SMRSA staff has identified the need for the preparation of a Force Main/Outfall Pipe Condition Assessment Plan. The SMRSA owned and operated force mains and outfall pipe are increasing in age and are considered one of the Authority’s most critical assets. SMRSA’s intent is to develop a Condition Assessment Plan that would strategically and systematically evaluate the force mains/outfall pipe and ultimately support an asset management plan that would include maintenance and replacement and/or upgrade strategies. The Force Main/Outfall Pipe Condition Assessment Plan is intended to be a document that SMRSA will use moving forward to evaluate the condition of its force main/outfall pipes and provide for as a guide to future Condition Assessments (phase II) and any necessary Repairs and/or Upgrades (phase III).

WHEREAS, it is the desire of the SMRSA to be protective of the environment, proactive with its maintenance and asset management programs, and remain in compliance and consistency with current New Jersey Department of Environmental Protection rules; and

WHEREAS, the SMRSA Staff solicited proposals from its five pre-qualified Consulting Engineers Firms; and

WHEREAS, the SMRSA Staff have ranked the proposals based upon: Responsiveness to RFP, Innovativeness to Approach, Schedule/Delivery of Services and Cost Effectiveness; and

WHEREAS, the highest ranked proposal was received from CDM Smith, Inc. of Edison, New Jersey. CDM Smith has submitted a cost proposal totaling $68,860 dated August 6, 2018, which has been attached hereto and made a part hereof (ATTACHMENT A) to develop a Condition Assessment Plan that would strategically and systematically evaluate the Authority’s force mains/outfall pipe. This Assessment Plan will provide SMRSA with thorough and specific recommendations as to when and how to inspect piping segments and provide budgetary cost estimates for the inspection program; and

WHEREAS, SMRSA’s Management have reviewed and recommend these engineering tasks related to this project be performed.

NOW, THEREFORE, BE IT RESOLVED by the South Monmouth Regional Sewerage Authority that:

- The Authority shall herein engage the services CDM Smith, Inc. to perform the following services at cost(s) Not to Exceed:
  
  Task 1 Existing Data Review and Pipeline Data Enhancement Recommendations $11,990
  Task 2 Development of the Pipeline Screening Methodology $17,190
Task 3 Inspection Method Decision Framework Development $11,910
Task 4 Condition assessment Plan and Recommendations $21,840
Task 5 Meeting Attendance $5,930

- The Financial Officer of the Authority has certified that there are sufficient funds available to pay the compensation for said services.

- That the Executive Director be and is hereby authorized and directed to take all necessary and required actions to execute any necessary contracts and comply with the Public Notification of a Non-Fair and Open Awarded contract award in compliance with the Local Public Contracts and Play to Play Rules and Regulations.

LASTLY BE IT RESOLVED by the South Monmouth Regional Sewerage Authority that the statements contained in the foregoing preamble be and are hereby incorporated into this Resolution as if more fully set forth herein at length.

CERTIFIED TO BE A TRUE COPY OF A RESOLUTION DULY ADOPTED BY THE SOUTH MONMOUTH REGIONAL SEWERAGE AUTHORITY AT ITS REGULAR MEETING ON 09-13-18.

JOSEPH C. MAY - SECRETARY
Statement of Qualifications

Development of Force Main/Outfall Pipe Condition Assessment Plan (Phase 1)

August 2018

CDM Smith
August 6, 2018

Mr. Ryan Krause, P.E.
Executive Director
South Monmouth Regional Sewerage Authority
1235 18th Avenue
Belmar, NJ 07719

Subject: Proposal for Professional Engineering Services
Force Main/Outfall Condition Assessment Plan Development

Dear Director Krause:

CDM Smith Inc. (CDM Smith) is pleased to submit our proposal for professional engineering services for the above referenced project. This letter proposal is organized into the following sections for your review:

- Project Understanding

- Technical Approach and Scope of Services

- South Monmouth Regional Sewerage Authority’s (SMRSA’s) Responsibilities

- Schedule

- Project Team

- Cost of Services

Following are detailed descriptions of the above bulleted items.

**Project Understanding**

The South Monmouth Regional Sewerage Authority (SMRSA) currently owns and maintains approximately 48,575 LF of sanitary sewer force mains and 11,500 LF of 36-inch diameter outfall piping. These conveyance systems are regarded as one of SMRSA’s most critical assets. Although failures resulting from poor conditions in these systems are rare, the limited comprehensive knowledge of the systems’ condition and increasing age of these assets call into question the systems’ reliability and likelihood of failure.
To address this concern, SMRSA has decided on a proactive approach to evaluate, repair and upgrade their conveyance systems. This approach, herein identified as the SMRSA Conveyance System Asset Management Plan, is an on-going process that is intended to provide SMRSA with critical information on their capital assets and timing of capital investments and maintenance. The Conveyance System Asset Management Plan is a three-phase process defined as follows:

**Condition Assessment Plan (Phase I):** The Condition Assessment Plan is essentially a roadmap that will be utilized by SMRSA for the inspection of their force main and outfall conveyance systems. The Condition Assessment Plan will provide SMRSA with thorough and specific recommendations as to when and how to inspect piping segments and provides budgetary cost estimates for the inspection program.

**Condition Assessment Implementation Program (Phase II):** Based on the findings and recommendations of the Condition Assessment Plan (Phase I), SMRSA will actively inspect and evaluate the condition of force mains and outfall piping on a scheduled and prioritized basis.

**Conveyance System Rehabilitation and Upgrades (Phase III):** Upon completion of the Phase II Condition Assessments, SMRSA will complete the recommended maintenance and capital improvement projects (i.e. pipeline replacements, upgrades, etc.) to restore critical segments of the system.

This proposal is being offered in response to SMRSA’s request to develop the Condition Assessment Plan (Phase I) for SMRSA’s force main and outfall pipe infrastructure. Our technical approach and scope of service to complete this assignment is detailed in the following section of this proposal.

**Technical Approach and Scope of Services**
CDM Smith understands SMRSA intends to develop a Condition Assessment Plan (CAP) that addresses the following key areas:

1. Developing a set of criteria that identify the force mains/outfall pipe segments that should be inspected;
2. Identifying how the force main/outfall pipes should be inspected (inspection techniques, etc.);
3. The practicality and issues associated with inspecting the force mains/outfall pipe, including access, staging, engineering requirements and other concerns;
4. Identifying when the force main/outfall pipe should be prioritized for inspected;
5. Creating budgetary costs for a force main/outfall pipe inspection technologies and engineering required to support the inspections; and

6. Creating a well thought out pipeline condition assessment program that is easy to understand, cost-effective and implementable by SMRSA staff.

To meet the project objectives, CDM Smith's approach will be to use an innovative approach to perform and track the engineering decision making that needs to be performed to identify the most appropriate pipeline inspection technology and approach for each of the SMRSA force main and outfall pipes. By using a digital decision-making software that utilizes SMRSA's GIS data, CDM Smith will be able to develop a condition assessment plan that enables our team and your staff to quickly test different inspection and cost scenarios to determine the most appropriate choices for each pipeline segment.

CDM Smith proposes to use InfoMaster software by Innovyze to develop a set of digital decision points within an overall decision framework that will utilize SMRSA's system-wide GIS data containing SMRSA's pipeline locations and surrounding infrastructure to accurately make inspection decisions and track the needs and resulting costs.

The approach will provide SMRSA with a completely transparent and defensible plan that can be maintained and viewed within the SMRSA GIS. This will provide SMRSA with the ability to present the results to stakeholders and staff in the most efficient way possible while providing the ability to track the work during future planned phases of the program where the inspection and rehabilitation work will occur.
Our approach will use the following five primary tasks to develop the CAP in a logical progression.

**Task 1 – Existing Data Review and Pipeline Data Enhancement Recommendations**

As the first task on the project, CDM Smith’s utility data experts will perform an assessment of available data to support the development of a repeatable, defensible and efficient condition assessment and planning approach for SMRSA. The review will include an analysis of available digital asset inventory data in SMRSA’s geographic information system (GIS) and computerized maintenance management system (CMMS) (if available) to identify missing or potentially incomplete data required for the desktop assessment analysis described in detail in Tasks 3 and 4 of our approach.

The primary focus of the data review for the assets will include, but not be limited to:

- Pipeline installation date, material, diameter and depth from the SMRSA GIS
- The existing hydraulic model for flow velocities and capacities
- Pipeline thickness or manufacturer information
- Presence of lining/coating
- Force main air release valves
- Protective features
- Operating pressures or flows/traffic loads
- Previous failures and maintenance issues
- Repair history data including costs
- Previous condition assessment records
- Pipeline risk-ranking analysis previously performed by SMSRA staff
We understand from the RFP that SMRSA has some concerns regarding the quality of the spatial position of the pipelines within the existing GIS dataset and as part of the initial task CDM Smith staff will discuss the impact that each of the data deficiencies may have on the inspection decision analysis and make detailed recommendations regarding methods to address each deficiency as part of the final CAP and program.

We also understand from that SMSRA has already performed an initial risk-analysis of the pipeline asset segments and CDM Smith staff will work closely with SMRSA staff so that we fully understand the methodology that was used in its development as well as how SMRSA may wish to enhance it in the future if required. CDM Smith performs detailed pipeline asset risk analysis rankings for the majority of our condition assessment projects and we are pleased to see that SMRSA has already “jump started” this important step in the process.

Task 2 - Development of the Pipeline Screening Methodology
Wastewater force main pipelines operate under pressure and, as noted in the RFP, SMRSA’s system consist of varying types of metallic and concrete material, each with its own unique physical and chemical properties. SMRSA’s network has no looping or alternate paths for the wastewater to take on its way to the treatment plant or out the outfall pipeline. In some cases, pipes may need to be taken out of service to inspect depending on the technology used, complicating the inspection process. Force mains may deteriorate evenly or only at specific segments depending on the local conditions (hydrogen sulfide gas pockets, corrosion, soils corrosivity, liner breach, external damage, abrasion, etc.).

Depending on the pipeline size, material, thickness, or specific break history, different technologies exist to most efficiently and cost effectively provide a condition assessment. A mixture of these technologies is envisioned to be used within the comprehensive inspection program.

CDM Smith’s team of pipeline inspection experts, led by Brent Johnson who currently is on the National Association of Sewer Service Companies (NASSCO) Pressure Pipe Committee, have developed a screening matrix of technologies available within the industry along with the types of information they provide, their methods of application/access and the relative costs. This matrix is shown in Table 1 below. The information in this table will be refined during this task to SMRSA’s unique system characteristics and will then be used to screen out specific pipeline segments that each technology is applicable to.
<table>
<thead>
<tr>
<th>Inspection Type</th>
<th>Technology</th>
<th>Pipe Type</th>
<th>Test Type</th>
<th>Result Type</th>
<th>Relative Cost</th>
<th>Pipe Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>External, Wall Thickness (UT)</td>
<td>Ultrasonic</td>
<td>Metallic</td>
<td>Non-Destructive, In-Service</td>
<td>Spot Test</td>
<td>Low</td>
<td>Exist ARV MH or Open Cut</td>
</tr>
<tr>
<td>External, Wall Thickness (MFL)</td>
<td>Magnetic Flux Leakage</td>
<td>Metallic</td>
<td>Non-Destructive, In-Service</td>
<td>Spot Test</td>
<td>Low</td>
<td>Exist ARV MH or Open Cut</td>
</tr>
<tr>
<td>In-Pipe, Acoustic Leak and Gas Pocket Detection</td>
<td>Acoustic Detection (SmartBall™)</td>
<td>All</td>
<td>Non-Destructive, In-Service</td>
<td>Detection of Precursors to Failures</td>
<td>Low</td>
<td>Launch and Retrieval Taps</td>
</tr>
<tr>
<td>In-Pipe, Video CCTV</td>
<td>Visual</td>
<td>All</td>
<td>Non-Destructive, Temp Out of Service</td>
<td>Visual Condition</td>
<td>Medium</td>
<td>Tap, Dewater, Bypass</td>
</tr>
<tr>
<td>In-Pipe, Internal Wall Condition</td>
<td>Remote Field Eddy Current</td>
<td>Metallic, PCCP</td>
<td>Non-Destructive, In-Service</td>
<td>Full Pipe Length Summary</td>
<td>High</td>
<td>Launch and Retrieval Pit and Taps</td>
</tr>
<tr>
<td>External, Acoustic Pipe Condition Assessment</td>
<td>Pressure Wave Condition Assessment (P-Cat™)</td>
<td>Metallic, Concrete, AC</td>
<td>Non-Destructive, In-Service</td>
<td>Defect Summary</td>
<td>Low</td>
<td>Exist ARV MH or Open Cut</td>
</tr>
<tr>
<td>In-Pipe Hi-Res RFT Defect Location</td>
<td>Electromagnetic Remote Field Testing (SeeSnake™)</td>
<td>Metallic</td>
<td>Non-Destructive, In-Service</td>
<td>Defect Summary</td>
<td>High</td>
<td>Launch and Retrieval Pit and Taps, Pipe Cleaning, No Valves</td>
</tr>
<tr>
<td>Acoustic Signal Processing</td>
<td>Fiber Optic</td>
<td>PCCP</td>
<td>Temp Out of Service</td>
<td>New Wire Breaks, Frequency, Density, and Location</td>
<td>High</td>
<td>Access MHs or Taps</td>
</tr>
<tr>
<td>Pipe Coupon Extraction and Testing</td>
<td>Physical Dissection</td>
<td>All</td>
<td>Destructive, Temp Out of Service</td>
<td>Spot Test, Physical Lab Measurements</td>
<td>High</td>
<td>Open Cut</td>
</tr>
</tbody>
</table>
SUCCESS STORY

Multi-modal Pipe Condition Assessment in Boston

For the Boston Water and Sewer Commission, CDM Smith recommended a multi-modal investigation of a troublesome ductile iron (DI) main. The 12-In DI main on Walnut St., installed in 1997, had several recent breaks. Stray current was the suspected cause due to its proximity to the nearby MBTA subway tracks. However, the assessment of a 2,000-ft stretch of main included a stray current investigation, vacuum pits to directly observe the main and to collect soil samples, and Echologic’s ePulse pipe wall thickness evaluation. It was found that the section of main where stray current was detected was also subject to corrosion due to aggressive soils. Direct observation of the pipe wall in vacuum pits confirmed external corrosion damage. The ePulse findings showed an approximate 31% reduction in average minimum wall thickness in same area, corroborating the prior findings and helping to establish the limits of the deteriorated main for subsequent rehabilitation or replacement.

<table>
<thead>
<tr>
<th>Pipe Segment</th>
<th>From</th>
<th>To</th>
<th>Equivalent Nominal Thickness</th>
<th>ePulse Measured Thickness</th>
<th>% Change from Nominal</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>H10</td>
<td>H9</td>
<td>0.47</td>
<td>0.38</td>
<td>-15.0%</td>
</tr>
<tr>
<td>2</td>
<td>H9</td>
<td>H8</td>
<td>0.42</td>
<td>0.37</td>
<td>-16.0%</td>
</tr>
<tr>
<td>3</td>
<td>H6</td>
<td>H32</td>
<td>0.42</td>
<td>0.35</td>
<td>-16.3%</td>
</tr>
<tr>
<td>4</td>
<td>H32</td>
<td>H26</td>
<td>0.42</td>
<td>0.29</td>
<td>-33.0%</td>
</tr>
<tr>
<td>5</td>
<td>H26</td>
<td>H20</td>
<td>0.42</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>6</td>
<td>H20</td>
<td>H14</td>
<td>0.42</td>
<td>0.29</td>
<td>-33.0%</td>
</tr>
<tr>
<td>7</td>
<td>H14</td>
<td>V120</td>
<td>0.42</td>
<td>0.35</td>
<td>-16.0%</td>
</tr>
</tbody>
</table>

EPULSE™ Pipe Wall Condition Assessment Results

CDM Smith staff will use the information in Table 1 to review the available technologies with SMRSA staff and discuss the options for access and impact to service of each of the runs of force main and outfall pipeline within the system. Known access or service impact issues will be documented and then integrated with the final set of screening criteria developed as part of the final decision framework developed in Task 3 to electronically screen the pipeline segments within SMRSA’s GIS. The final set of available inspection technologies and known issues in their application to the SMRSA force main and outfall pipelines will be fully documented in the final CAP.

Task 3 – Inspection Method Decision Framework Development

CDM Smith has pioneered the use of electronic decision frameworks to support the complex decision making that goes into pipeline inspection work. Our management consulting/computer experts have teamed with our pipeline condition assessment experts to develop a complete set of factors that affect the application of the inspection options listed in Table 1. CDM Smith uses software from Innovyze to support this repeatable analysis. InfoMaster is fully integrated with Esri GIS software and has built-in rehabilitation framework allows for advanced rehabilitation and replacement methods to be used in conjunction with the results of the risk model. The software makes use of a decision tree diagram to apply specific actions on each pipeline given criteria from SMRSA’s existing risk model and outside the risk model. The factors that will be included in the decision framework include but are not limited to:

- Pipeline material type
- Pipeline diameter
CDM Smith's staff will work closely with SMRSA's operations and maintenance staff in a workshop setting to review and refine the factors that will affect the decisions regarding which inspection methodology to use on a given pipeline segment as well as if and when the pipeline should be inspected, including reinspection frequency.

Cost estimates for the per foot or unit costs for specific services associated with the inspections will be based on typical costs seen in the industry. Detailed cost estimates will not be performed but can be completed for an additional fee as a follow-on phase to the project.

Inspection costs will be added to the InfoMaster software. InfoMaster has functionality that allows CDM Smith staff to calculate the aggregated costs for the inspection work based on the results of the decision framework. Because the decision framework and InfoMaster will utilize the SMRSA GIS database, the costs will be aggregated to each of the pipeline segments in the existing GIS database.
Once the factors are identified, the data needed to support these factors will be reviewed to determine the quantity and quality of the data to support the semi-automated decision framework. Any data gaps will be identified and CDM Smith will work closely with SMRSA staff to collect or estimate the required data. CDM Smith has developed dozens of decision frameworks for our clients and has experience in finding innovative methods to address gaps in data that are nearly always present but have to date never significantly impacted the desktop decision analysis.

CDM Smith staff will then build “projects” for the inspections within the GIS database by combining sections of pipelines that are of the same age, material and diameter and have the same inspection method noted. In some cases, initial “screening” inspections will be performed that are a lower cost than internal inspections and the cost for each phase of inspection will be separately documented in the database.

This approach has enabled CDM Smith to create rehabilitation plan scenarios by adjusting the values in the decision frameworks to screen different types and levels of activity. Further results include rapid development of “what if” scenarios to allow our clients to identify a strategy that balances their financial and operational needs with the levels of system risk the pipelines may represent. We feel this is a significant and innovative advancement in developing and managing condition assessment work.

CDM Smith will provide SMRSA with the final decision framework in both InfoMaster and Microsoft Visio formats should SMRSA choose to implement the InfoMaster software in the future. The results of the analysis however are a simple database table that will be linked to the SMRSA pipeline GIS layer for future mapping and reference.
Figure 2: Example Decision Model in InfoMaster.
Task 4 – Condition Assessment Plan and Recommendations
CDM Smith will fully document the approach used to develop the CAP within a final document provided to SMRSA for reference and use. The final CAP document will provide a complete documentation of the approach used and the resulting recommendations for the condition inspection work including:

- The results of the data review performed during Task 1 as well as the recommended approaches to address any data deficiencies and the impact they had on the initial processing of the CAP;

- The pipeline condition assessment technologies considered during the development of the final inspection screening work within Task 2 of the project. This will include a detailed identification of the factors that went into the selection of each inspection method for specific pipeline segments;

- A detailed decision framework diagram in Microsoft Visio format that lists the decision points used to electronically screen the pipeline segments for work within the InfoMaster software and database as part of Task 3. This will include a table listing the final force main and outfall segments, their inspection methods, the length of the inspections and the total cost resulting from the analysis. Note that this data will also be delivered in a GIS database and InfoMaster project formats for use electronically by SMRSA now and in the future.

- The general cost estimation processes and values used for each method identified in Task 4. This will include the general inspection costs for each individual pipeline segment as well as the total costs for each of the recommended condition inspection project.

CDM Smith staff will hold a final meeting with SMRSA staff to review the final draft plan.

Task 5 – Meeting Attendance
Included in this task is CDM Smith’s attendance at progress meetings to be held at SMRSA facilities for the duration of the Project. Per the RFP, a total of three (3) progress meetings will be held over the course of the Project. CDM Smith will conduct the progress meetings and minutes to these meetings will be prepared and distributed electronically by CDM Smith. As requested, our fee section herein includes the unit price for attending additional meetings.

Assumptions
For the purposes of developing this scope and budget, CDM Smith has made the following assumptions:
CDM Smith will not be required to perform any inspections as part of the development of the CAP. This project and the resulting CAP are a plan and methodology for SMRSA to use to secure inspection services as part of additional projects;

CDM Smith will use its own copy of the InfoMaster software product and will deliver the resulting digital database files but will not be required to provide software as part of this project; and

CDM Smith will not be required during this project to perform the detailed engineering required to develop plans for pipeline condition inspection tool access. This work will be scoped and performed in subsequent contract phases based on the results of the CAP analysis.

**South Monmouth Regional Sewerage Authority's Responsibilities**

During this assignment, the South Monmouth Regional Sewerage Authority (SMRSA) will:

- Provide CDM Smith with all available information including record drawings, reports, hydraulic models, operation and maintenance logs, etc. that may assist with the Project;

- Provide CDM Smith access to the pump stations (if required to review/document inspection access locations); and

- Provide available GIS databases for the SMRSA wastewater network assets as well as basemap data where available.

**Schedule**

If awarded, CDM Smith will work with SMRSA on developing a schedule that works for all parties. At this time, CDM Smith anticipates the following schedule.

- Notice to Proceed – September 14, 2018

- Kickoff Workshop – September 18, 2018

- Task 1 – Review Existing Data and Enhancement Recommendations – September 18 to October 18, 2018

- Task 2 – Develop Pipeline Screening Methodology – September 18 to October 18, 2018

- Task 1 and 2 Review Meeting – October 19, 2018

- Task 3 – Decision Framework Development – October 18 to November 18, 2018
Task 3 Review Meeting – December 4, 2018

Task 4 – Condition Assessment Plan Development – November 18 to December 15, 2018

SMRSA Staff Review – December 15, 2018 to January 9, 2019

Finalize CAP, Deliver and Train – January 20, 2019

Project Team
Our proposed staffing for this project provides SMRSA with a team of highly-qualified experienced professionals. Figure 4 below illustrates our proposed team’s organizational chart for the project. Resumes of key staff can be found in CDM Smith’s October 2017 response to SMRSA’s RFEI. Additional resumes not covered in our 2017 RFEI response are included in Appendix A.

Figure 4: Proposed Project Team

Client Service Leader
David C. Smith, PE

Project Manager
David J. Tanzi, PE, BCEE

Technical Advisors
Howard S. Matteson, PE
Ahmad Habibian, Ph.D.

Technical Support Staff
Decision Screening Analysis
James R. Carolan
Mark A. Zito, CFM, GISP

Pipeline Condition Assessment
M. Brent Johnson, PE

Engineering Analysis
David J. Tanzi, PE, BCEE
Rina N. Dalal, PE

Cost Estimation
Paul T. Damon, PE

CDM Smith has provided SMRSA with a strong team and is well prepared to deliver this project successfully to SMRSA. The following bios provide additional insight into our team’s capabilities and past experience. As this project advances to future phases of work, we have the expertise and staff necessary to assist with future efforts (i.e. design, permitting, modeling, inspections), if desired by SMRSA. Please refer to our 2017 RFEI response for additional qualifications and experience.
Project Teams

David J. Tanzi, P.E. (NJ, NY, PA), BCEE - Project Manager

*ME, Environmental Engineering; BE, Civil Engineering*

Mr. Tanzi is an environmental engineer who provides senior project management and engineering services for a wide range of conveyance projects for authorities and municipalities. Mr. Tanzi will oversee the condition assessment of the PCCP transmission system to ensure SMRSA receives consistent attention to quality and all necessary resources for the successful completion of this project.

Mr. Tanzi is CDM Smith’s leading pipeline expert in the Tri-state area. He has 20 years of experience managing multi-disciplinary project teams in civil, geotechnical, and pipeline design. He is a results driven senior manager who has a proven track record of delivering high-quality projects on-time and within budget. He has managed and provided technical reviews of condition assessments and complex pipeline installations challenging sites across New Jersey, New York, and Illinois. His experience includes several highly relevant projects including SMRSA’s Asset Planning Document for the existing 12,000 linear foot 36-inch diameter pre-stressed concrete ocean outfall, Middlesex Water Company’s (MWCo’s) 60-inch Raw Water Pipeline project which included a hydraulic assessment of MWCo’s 54-inch PCCP raw water transmission main, and MWCo’s 42-inch Transmission Main Condition Assessment which included approximately 5.2 miles of transmission main.

James Carolan – Decision Screening Analysis

*MA, Environmental Studies and Analysis; BA, Environmental Sciences*

Mr. Carolan is involved in developing state of the art, long-term capital planning studies leveraging GIS data and spatial analysis to better identify risk and consequence in ranking water and wastewater system assets.

Mr. Carolan led an engineering staff in identifying the most appropriate locations to perform large diameter prestressed concrete cylinder (PCCP) pipelines condition assessment activities for the Middlesex Water Company, Middlesex, NJ. Mr. Carolan managed the staff in utilizing Innovye Software’s InfoMaster capital planning software to develop a set of probability of failure factors based on workshops and collaboration with MWCo staff. The resulting analysis enabled the filtering of potential locations along the PCCP pipes to perform the inspections. MWCo is now moving forward with implementing a more complete set of analysis for the entire water set of water system pipes that will include the consequence of failure as well as the probability factors developed during this project. The project has now been extended to the entire water system.

For the City of Raleigh Public Utilities Department (CORPUD) and Palm Beach County Water Utilities Department (PBCWUD), Mr. Carolan assisted in enhancing their existing approach to prioritizing condition assessment and rehabilitation of their wastewater collection and water distribution systems. He is currently coordinating with PBCWUD staff to assist them in managing a 5-year, $35M force main pipeline condition assessment and rehabilitation program using InfoMaster software.
Ahmad Habibian, PhD, PE (MD, VA) - Technical Advisor

PhD, Geotechnical Engineering; MPhil, Geotechnical Engineering; MS, Civil Engineering

Dr. Habibian specializes in infrastructure management, pipeline assessment and rehabilitation, and trenchless technology. His 30+ years of experience was gained through engineering practice, education and research at the local, national and international levels. He has been involved in the planning, design, construction, evaluation and rehabilitation of water and sewer systems. Dr. Habibian is the recipient of the 2015 AWWA DPOD Peak Performance Award and the 2008 ASCE Pipeline Division Award of Excellence.

He has served in several leadership positions with ASCE and AWWA, including Chair of ASCE’s Pipeline Division Executive Committee, founding member and Chair of ASCE’s Underground Pipelines Asset Management Committee, and founding member and Chair of the ASCE’s Technical Committee for Trenchless Installation of Pipelines. His list of accomplishments include serving as the co-author of the WEF/ASCE MOP on Pipeline Rehabilitation; teaching at the University of Maryland and Shiraz University; and publishing and presenting more than 100 papers at ASCE, AWWA, WEF, NASTT and other professional organizations publications and conferences. Dr. Habibian also offers relevant experience on the Passaic Valley Sewer Commission’s (PVSC) Condition Assessment of Main and Branch Interceptors and Outfalls, for which he provides technical direction for condition assessment of approximately 40 miles of main and branch interceptors and associated manholes, inverted siphons, outfalls, venture meters, and regulator chambers.

Brent Johnson, PE (NC) – Pipeline Condition Assessment

BS, Civil Engineering

Mr. Johnson is a civil engineer with over 27 years of experience and is one of the region’s most qualified technical experts in sanitary sewer condition assessment, rehabilitation infrastructure techniques, and trenchless technologies. He has provided cost-effective rehabilitation recommendations and designs for utilities throughout NC, including Raleigh, Durham, Cary, OWASA, Greensboro, Union County, Charlotte Water, and Fayetteville PWC. Brent is also NASSCO-certified and is the recent Chair of NASSCO’s Pressure Pipe Committee. He is an active member of NASSCO’s CIPP Pipe Bursting, Manhole, Lateral, and Pressure Pipe Committees. Brent is currently serving as project manager for CORPUD’s Twin 72-inch Sanitary Sewer Interceptor Assessment and Rehabilitation project, and is technical director for the State Street Water and Sewer Main Condition Assessment project, which includes condition assessment of 60,000-linear-feet of 24- to 56-inch transmission mains.
Brent is also the technical director for Durham's Central Park Water Line Replacement and Sewer Improvements project; Union County's Public Works Sanitary Sewer Rehabilitation Program; OWASA's Sanitary Sewer Rehabilitation Program; and the City of Columbia's (SC) Sanitary Sewer Condition Assessment and Rehabilitation project. Brent's additional CORPUD experience includes managing several Sanitary Sewer Collection System rehabilitation merger projects and the Glenwood Avenue Force Main Rehabilitation project.

**Paul Damon, PE (ME) – Cost Estimation**

**BS, Civil Engineering**

Mr. Damon has 41 years of experience in estimating, design and construction experience. He has successfully estimated construction jobs ranging in size up to $750 million, and estimates for programs that are multiple billions of dollars. His responsibilities include the preparation of conceptual estimates, preliminary design estimates, final design estimates, detailed bid estimates, and change order pricing and negotiating. He evaluates scope and pricing on design-build proposals and provides value engineering services.

Mr. Damon has prepared estimates encompassing a wide range of projects involving water supply and treatment facilities, wastewater treatment facilities, water and wastewater pump stations, transportation projects, hazardous waste remediation projects, industrial processing facilities, and solid waste recovery facilities. His estimating experience also includes estimates for new buildings, renovations of existing buildings, and estimating underground work in congested urban areas.

**David C. Smith, PE (NJ, NY) – Client Service Leader**

**BS, Bioenvironmental Engineering**

CDM Smith's Team will be under the overall direction of David C. Smith, as Client Service Leader. Mr. Smith will ensure that all required resources are made available and applied to complete the projects in accordance with scope, schedule, and budget requirements. He will also provide quick responses to any concerns or needs that may arise over the course of the work. Mr. Smith has more than 18 years of diverse engineering experience, with significant contributions on planning, design, and construction of water and wastewater infrastructure projects throughout New Jersey. Much of his experience has involved the completion of design-build-operation projects which has provided him with a wealth of knowledge in all phases of project execution.
Howard Matteson, PE (NJ, NY), BCEE– Technical Advisor
BS, Civil Engineering; BA, History
23 years of experience in engineering design, management and quality assurance / quality control (QA/QC). Projects covering such issues as comprehensive wastewater treatment plant upgrades, inflow and infiltration (I/I) studies of major interceptors, stormwater management and flood control, design of potable water storage tanks, project assessments, solid waste facility design and planning, air pollution permitting, Phase I environmental site assessments, and facility planning and management. Mr. Matteson has worked on multiple previous projects with SMRSA, including the development of a computerized hydraulic model for SMRSA's complex manifold force main and pump station system.

Rina Dalal, PE (NJ) – Engineering Analysis
MS, Architecture, Sustainable Design; BS, Environmental Engineering
10 years of environmental engineering experience in environmental permitting and water/wastewater infrastructure improvement projects for public and private utilities. This includes a variety of engineering studies, regulatory reports, design projects field work and construction contract administration. Dual degrees in Engineering and Sustainable Design. Skilled in supporting project teams with developing work products that are readily translatable for both technical and non-technical audiences.

Mark Zito, CFM, GISP – Decision Screening Analysis
MPS, Geographic Information Technology; BS, Geography
11 years of experience as a Geospatial Data Scientist. Experienced in project planning, process and requirements analysis, stakeholder engagement, development of workflow diagrams that evolve into highly detailed systems, data modeling, analytics, machine learning, database design, and application development. Technical skills include Esri's ArcGIS Suite, SQL Server, business intelligence software including Tableau and Microsoft PowerBI, and Asset Management software including Innovyze's InfoWater and InfoMaster.
Cost of Services
The following table summarizes our proposed costs for individual tasks identified in Scope of Services.

Table 2: Proposal Fee Estimate
Condition Assessment Plan Development

<table>
<thead>
<tr>
<th>Task</th>
<th>Description</th>
<th>Lump Sum Estimated Task Total (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Existing Data Review and Pipeline Data Enhancement Recommendations</td>
<td>$11,990</td>
</tr>
<tr>
<td>2</td>
<td>Development of the Pipeline Screening Methodology</td>
<td>$17,190</td>
</tr>
<tr>
<td>3</td>
<td>Inspection Method Decision Framework Development</td>
<td>$11,910</td>
</tr>
<tr>
<td>4</td>
<td>Condition Assessment Plan and Recommendations</td>
<td>$21,840</td>
</tr>
<tr>
<td>58</td>
<td>Meeting Attendance</td>
<td>$5,930</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL</strong></td>
<td><strong>$68,860</strong></td>
</tr>
</tbody>
</table>

(1) Includes Labor and Other Direct Costs
(2) For attendance and preparation of additional meetings, CDM Smith offers a unit price cost of $1700 per meeting for attendance by local staff only or $2800 for meetings requiring attendance by our national expert staff

Please feel free to call me with any questions you have on our proposal described herein. We look forward to working with you on this important assignment.

Very truly yours,

David Smith, P.E.
Client Service Leader
CDM Smith Inc.

cc: N. Chesko, SMRSA
    T. Schoettle, CDM Smith
    D. Tanzi, CDM Smith
September 18, 2018

Mr. David J. Tanzi, P.E., B.C.E.E.
CDM Smith Inc.
110 Fieldcrest Avenue, #8
6th Floor
Edison, NJ 08937

RE: Resolution #79-18
Notice of Award – Professional Engineering Services Contract for the Development of Force Main/Outfall Pipe Condition Assessment Plan (Phase 1)

Dear Mr. Tanzi:

On behalf of the South Monmouth Regional Sewerage Authority kindly be advised that the Board of Commissioners approved Resolution #79-18 (copy attached) awarding CDM Smith Inc. a Professional Engineering Services Contract for the Development of a Force Main/Outfall Pipe Condition Assessment Plan (Phase 1) as outlined in your proposal dated August 6, 2018. Those following associated tasks and their designated not-to-exceed costs are:

1. Existing Data Review and Pipeline Data Enhancement Recommendations $11,990
2. Development of the Pipeline Screening Methodology $17,190
3. Inspection Method Decision Framework Development $11,910
4. Condition Assessment Plan and Recommendations $21,840
5. Meeting Attendance $ 5,930

Additionally, please reference Purchase Order CPF-79-18 for all invoices involving this contract. Invoices should be sent to the attention of Mr. Bernard Bujak (finance@smrsa.org) with a copy to Ms. Natalie Chesko (nchesko@smrsa.org). A signed purchase order/voucher and invoice must be received by the SMRSA no later than the 25th of the month preceding the month payment is expected. Checks are released on the third Thursday in which payment is expected.

If you have any questions or need additional information regarding this project, please feel free to contact me or Natalie Chesko (Authority Engineer).

Sincerely,

Ryan R. Krause, P.E., C.M.E.
Executive Director
South Monmouth Regional Sewerage Authority

RRK:cb
Enclosure
CC: N. Chesko

The South Monmouth Regional Sewerage Authority is a nationally recognized agency in pollution abatement. In 2010 the Authority placed into service the first Combined Heat and Power Co-Generation System at a wastewater facility in Monmouth County, New Jersey. As a result its user base is realizing reductions in annual electrical energy cost of nearly 60 percent, and reductions in thermal energy cost at nearly 95 percent. The Authority encourages its system users, affiliated agencies, students and the public at large to arrange a tour of our facility by visiting www.smrsa.org.
RESOLUTION #79-18

A Resolution Awarding a Professional Engineering Services Contract to CDM Smith, Inc. for the Development of Force Main/Outfall Pipe Condition Assessment Plan (Phase 1)

WHEREAS, in accordance with the South Monmouth Regional Sewerage Authority’s (SMRSA) Asset Management goals and objectives, the SMRSA staff has identified the need for the preparation of a Force Main/Outfall Pipe Condition Assessment Plan. The SMRSA owned and operated force mains and outfall pipe are increasing in age and are considered one of the Authority’s most critical assets. SMRSA’s intent is to develop a Condition Assessment Plan that would strategically and systematically evaluate the force mains/outfall pipe and ultimately support an asset management plan that would include maintenance and replacement and/or upgrade strategies. The Force Main/Outfall Pipe Condition Assessment Plan is intended to be a document that SMRSA will use moving forward to evaluate the condition of its force main/outfall pipes and provide for as a guide to future Condition Assessments (phase II) and any necessary Repairs and/or Upgrades (phase III).

WHEREAS, it is the desire of the SMRSA to be protective of the environment, proactive with its maintenance and asset management programs, and remain in compliance and consistency with current New Jersey Department of Environmental Protection rules; and

WHEREAS, the SMRSA Staff solicited proposals from its five pre-qualified Consulting Engineers Firms; and

WHEREAS, the SMRSA Staff have ranked the proposals based upon: Responsiveness to RFP, Innovativeness to Approach, Schedule/Delivery of Services and Cost Effectiveness; and

WHEREAS, the highest ranked proposal was received from CDM Smith, Inc. of Edison, New Jersey. CDM Smith has submitted a cost proposal totaling $68,860 dated August 6, 2018, which has been attached hereto and made a part hereof (ATTACHMENT A) to develop a Condition Assessment Plan that would strategically and systematically evaluate the Authority’s force mains/outfall pipe. This Assessment Plan will provide SMRSA with thorough and specific recommendations as to when and how to inspect piping segments and provide budgetary cost estimates for the inspection program; and

WHEREAS, SMRSA’s Management have reviewed and recommend these engineering tasks related to this project be performed.

NOW, THEREFORE, BE IT RESOLVED by the South Monmouth Regional Sewerage Authority that:

• The Authority shall herein engage the services CDM Smith, Inc. to perform the following services at cost(s) Not to Exceed:
  Task 1 Existing Data Review and Pipeline Data Enhancement Recommendations $11,990
  Task 2 Development of the Pipeline Screening Methodology $17,190
Task 3 Inspection Method Decision Framework Development $11,910
Task 4 Condition assessment Plan and Recommendations $21,840
Task 5 Meeting Attendance $5,930

- The Financial Officer of the Authority has certified that there are sufficient funds available to pay the compensation for said services.

- That the Executive Director be and is hereby authorized and directed to take all necessary and required actions to execute any necessary contracts and comply with the Public Notification of a Non-Fair and Open Awarded contract award in compliance with the Local Public Contracts and Play to Play Rules and Regulations.

LASTLY BE IT RESOLVED by the South Monmouth Regional Sewerage Authority that the statements contained in the foregoing preamble be and are hereby incorporated into this Resolution as if more fully set forth herein at length.

CERTIFIED TO BE A TRUE COPY OF A RESOLUTION DULY ADOPTED BY THE SOUTH MONMOUTH REGIONAL SEWERAGE AUTHORITY AT ITS REGULAR MEETING ON 09-13-18.

JOSEPH C. MAY - SECRETARY
RESOLUTION #80-18

A Resolution to Authorize Solicitation of Bids to Furnish and Deliver
Grit Collector and Settling Tank Parts and Materials

WHEREAS, the South Monmouth Regional Sewerage Authority maintains four
Settling Tanks for the purpose of separating settleable materials from wastewater and
concentrating these solids into minimal volume for sludge digestion; and

WHEREAS, in the normal course of operation, routine maintenance, repair and
part replacement is required to prevent odor nuisances and equipment failure; and

WHEREAS, it is the intention of the South Monmouth Regional Sewerage
Authority to maintain all of its assets and equipment in proper working order at all times;
and

WHEREAS, it has been determined that through the normal course of system
operations the need has arisen to replace and restock certain grit collector and settling tank
parts and materials; and

WHEREAS, it is anticipated that the value of said award will be approximately
$100,000.00 thereby exceeding the New Jersey’s Pay to Play threshold of $17,500 as well
as the current public bidding threshold of $40,000.00 for contracting units that employ a
Qualified Purchasing Agent.

NOW, THEREFORE, BE IT RESOLVED by the South Monmouth Regional
Sewerage Authority that the Executive Director be and is hereby authorized and directed
to publicly advertise in the Authority’s official newspapers and on its website for the
receipt of public bids for the aforementioned grit collector and settling parts and materials.

CERTIFIED TO BE A TRUE COPY OF A RESOLUTION
DULY ADOPTED BY THE SOUTH MONMOUTH
REGIONAL SEWERAGE AUTHORITY AT ITS REGULAR
OPEN PUBLIC MEETING ON 09-13-18

JOSEPH C. MAY – SECRETARY
RESOLUTION # 81-18

Sewer Approval Extension for Township of Wall
(Halifax at Ramshorn Section II)

WHEREAS, the Township of Wall made application to the New Jersey Department of Environmental Protection (NJDEP) for a permit to construct a sanitary sewer extension for a project known as the Halifax at Ramshorn Section II, located on Tax Block 874, Lot 5.01 in the Township of Wall, New Jersey; and

WHEREAS, plans and specifications for said sewer extension have been prepared by Abbington Engineering, LLC of Jackson, New Jersey and are signed and sealed by William T. Wentzien P.E.; and

WHEREAS, the project consists of 1,868 LF of 3” PVC common force main and 15 privately owned grinder pump stations. Said application will generate 4,500 gpd of flow for a total 15 EDUs; and

WHEREAS, Abbington Engineering, LLC has requested a two-year project extension for the sanitary sewer extension for the project known as Halifax at Ramshorn Section II.

NOW, THEREFORE, BE IT RESOLVED that the said extension be and is hereby approved for another period of two consecutive calendar years immediately following the adoption of this resolution and

BE IT FURTHER RESOLVED that nothing contained herein waives and or nullifies the applicant’s requirement to comply with both the Township of Wall and SMRSA Sewer Use Rules and Regulations.

LASTLY BE IT RESOLVED by the South Monmouth Regional Sewerage Authority that the statements contained in the foregoing preamble be and are hereby incorporated into this Resolution as if more fully set forth herein at length.

CERTIFIED TO BE A TRUE COPY OF A RESOLUTION DULY ADOPTED BY THE SOUTH MONMOUTH REGIONAL SEWERAGE AUTHORITY AT ITS REGULAR OPEN PUBLIC MEETING ON 09-13-18

[Signature]

JOSEPH C. MAY – SECRETARY
RESOLUTION # 82-18

Resolution Ratifying the Actions of the Executive Director in Severing the Employment Relationship Between the Authority and Employee Number 43724, Effective August 13, 2018

WHEREAS it is the policy of the South Monmouth Regional Sewerage Authority to treat employees and prospective employees in a manner consistent with all applicable employment laws, regulations, Authority policies and procedures; and

WHEREAS, the personnel policies and procedures shall apply to all South Monmouth Regional Sewerage Authority officials, appointees, employees, volunteers and independent contractors; and

WHEREAS, on August 7, 2018 the Authority was notified in writing by an independent agency charged with oversight and management of certain polices and standards of the Authority of a violation of one of its policies involving Employee Number 43482 that occurred on August 1, 2018; and

WHEREAS, subsequent to August 7, 2018, the employee was given a reasonable opportunity to explain the infraction to the independent agency charged with oversight and management of certain polices and standards of the Authority that resulted in having no bearing on the violation; and

WHEREAS, consequences of the violation of this policy includes dismissal from employment with the Authority.

NOW THEREFORE, BE IT RESOLVED that the Board of Commissioners hereby ratifies and concurs with the August 13, 2018 actions of the Executive Director and authorizes the severance of Employee Number 43482, effective August 13, 2018.

CERTIFIED TO BE A TRUE COPY OF RESOLUTION DULY ADOPTED BY THE SOUTH MONMOUTH REGIONAL SEWERAGE AUTHORITY AT ITS REGULAR OPEN PUBLIC MEETING ON 09-13-18.

JOSEPH C. MAY - SECRETARY
RESOLUTION # 83-18

A Resolution Recognizing the “Imagine a Day Without Water” Campaign

WHEREAS, the South Monmouth Regional Sewerage Authority is recognizing the “Imagine a Day Without Water” campaign being held October 10, 2018 which is an organized effort to highlight the critical importance of reliable access to clean water in our lives and the investment in infrastructure that is necessary to protect this valuable resource; and

WHEREAS, the infrastructure that brings clean water to and from homes and businesses is essential to the quality of life and economic vitality of The South Monmouth Regional Sewerage Authority; and

WHEREAS, the South Monmouth Regional Sewerage Authority treats on average approximately 185 gallons of sewer water per dwelling per day; and

WHEREAS, the South Monmouth Regional Sewerage Authority services eight communities and has a system that consists of eleven pump stations, over nine miles of force mains, and a wastewater treatment plant; and

WHEREAS, water crises across the country, ranging from contaminated water, to drought, to flooding, show the severe impacts of what can happen to the public health and well-being of a community without access to clean drinking water; and

WHEREAS, droughts and flooding and other weather-related challenges put pressure on water systems that are ill-equipped and ill-prepared to manage such extreme events; and

WHEREAS, utilities nationwide are grappling with aging infrastructure and lack reliable revenue and funding to maintain systems let alone upgrade their systems; and

WHEREAS, one-fifth of the U.S. economy would grind to a halt without a reliable and clean source of water; and

WHEREAS, managing water responsibly is critical to our nation’s public and environmental health and to a high quality of life through economic commerce, power generation, and recreation; and

WHEREAS, investing in our drinking water and wastewater systems, as well as the stormwater systems that manage polluted runoff, will secure a bright and prosperous future for generations to come; and

WHEREAS, innovation in water conservation and water reuse will drive job growth, economic development, and establish a 21st century paradigm of water management in the United States; and

WHEREAS, decentralized stormwater infrastructure will not only ease the burden on our sewers but will provide a maximum return in benefits to the public, the economy, and the environment; and
WHEREAS, for each job created in the water sector, another 3.68 jobs are added in the national economy, and for every $1 spent on infrastructure improvements, the US generates $6 in returns; and

WHEREAS, different regions face different water challenges, so the solutions to strengthen our drinking water and wastewater systems must be locally driven, but reinvestment in our water must be a national priority.

NOW, THEREFORE, BE IT RESOLVED, that the South Monmouth Regional Sewerage Authority recognizes that water is essential to the quality of life and economic competitiveness and acknowledges the importance of educating the public about the value of water through the “Imagine a Day Without Water” campaign.

BE IT FURTHER RESOLVED, that the South Monmouth Regional Sewerage Authority is dedicated to investing in safe and reliable water and wastewater infrastructure and calls on our federal partners to bring much-needed funding and innovation to protect and restore our critical water infrastructure.

LASTLY BE IT RESOLVED by the South Monmouth Regional Sewerage Authority that the statements contained in the foregoing preamble be and are hereby incorporated into this Resolution as if more fully set forth herein at length.

CERTIFIED TO BE A TRUE COPY OF A RESOLUTION
Duly Adopted by the South Monmouth Regional Sewerage Authority at its Regular
Open Public Meeting on 09-13-18

JOSEPH C. MAY – SECRETARY