ECONOMIC BENEFIT GUIDANCE FOR WASTEWATER AND STORMWATER VIOLATIONS

Abstract

This document describes the process to calculate the Economic Benefit gained from noncompliance and to include it in penalty assessments for wastewater (NPDES/non-NPDES) and stormwater enforcement cases.

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Contents

1. Purpose of Determining Economic Benefit

The Economic Benefit component of penalty assessments focuses on the source's economic gain from noncompliance. Economic Benefit penalties discourage noncompliance and level the economic playing field, preventing sources from obtaining an unfair financial advantage over their competitors who made timely and necessary investments in environmental compliance. EPA guidance *(Oversight of State and Local Penalty Assessments: Revisions to the Policy Framework from State/EPA Enforcement Agreements;* 1993*)* notes that to remove economic incentives for noncompliance and establish a firm foundation for deterrence, EPA, the States, and local agencies shall endeavor, through their civil penalty assessment practices, to recoup at least the Economic Benefit the violator gained through noncompliance.

To promote statewide consistency and timely investment in environmental compliance, reasonable documentation of Economic Benefit calculations is **required** for most cases where an Economic Benefit has been identified above the de minimis threshold based on the design capacity of the facility. If an Economic Benefit assessment is deemed not appropriate, justification must be provided in the file and routed to the Division for consistency review.

2. Economic Benefit from Delayed or Avoided Costs

Economic Benefit can come from delayed or avoided costs. Some examples of delayed or avoided costs and expenditures that can have an Economic Benefit penalty associated with them are as follows;

Types of Compliance Costs	**Description**	**Examples**
Capital Investments	The cost of designing, purchasing, and installing the pollution control or monitoring equipment (things that wear out)	• Buildings • Equipment • BMP's
One-Time Non-depreciable Expenditures	Expenditures that need to be made only once and are non-depreciable (things that do not wear out)	• Land • Disposal • Staff Costs
Annually Recurring Costs	The average annual incremental cost of operating and/or maintaining the required pollution control measures	• Labor • Materials

2.1 Delayed Costs

A delayed cost is an expenditure that, through current noncompliance, can be put off until sometime in the future. By delaying these expenditures, the violator could earn interest on the unspent money or use the money for other revenue-producing activities, thereby gaining an Economic Benefit.

Examples of ***Wastewater delayed costs*** include, but are not limited to:

- Failure to install equipment to properly treat wastewater
- Failure to effect process changes or upgrades needed to reduce pollutants to surface water or ground water
- Failure to install and maintain required monitoring equipment, pollution control equipment, or devices

Examples of ***Stormwater delayed costs*** include, but are not limited to:

- Failure to install or maintain Best Management Practices (BMPs)
- Failure to update required pollution control system or device (Stormwater Pollution Prevention Plan (SWPPP))

2.2 Avoided Costs

An avoided cost is an expenditure not made, resulting in noncompliance. Many types of violations enable a violator to permanently avoid certain costs associated with compliance.

Examples *of* ***Wastewater avoided costs*** include, but are not limited to:

- Sanitary Sewer Overflows (SSOs) that did not receive treatment or were partially treated (the unrecovered volume)
- Improper treatment or disposal of biosolids at the facility or land application site
- Failure to conduct required monitoring or testing*
- Failure to obtain or timely apply for a wastewater operating permit*
- Failure to employ sufficient staff to meet plant staffing requirements

Examples *of* ***Stormwater avoided costs*** include, but are not limited to:

- Failure to conduct required monitoring (Quarterly Visual Monitoring (QVM), Multi-Sector Generic Permit (MSGP) Analytical Monitoring, Compliance Monitoring)*
- Failure to conduct required self-inspections (Weekly Construction Generic Permit (CGP) inspections, Annual Comprehensive Site Compliance Evaluation (ACSCE), Routine MSGP Facility Inspection)

*Note: Monitoring, Permit Fees and Domestic Wastewater Treatment Costs are DEP-defined as Direct Costs, which is a subcategory of avoided costs. QVM should be considered monitoring for Economic Benefit calculations. Please see the Direct Costs Calculation Section.

Although delaying costs for resolving noncompliance does pose an economic gain by the facility by accruing interest on unspent capital, there is discretion in pursuing this type of Economic Benefit. Depending on the amount of Delayed Costs already calculated and other circumstances of the case such as economic hardship, the district may choose to not pursue this form of Economic Benefit. However, if the district moves in this direction, documentation is essential.

The benefits from delayed and avoided costs can be calculated using this Economic Benefit Guidance document. The benefit portion of the cost calculation for the non-compliance is estimated as the avoided expense minus any tax savings.

The majority of the time, an Economic Benefit calculation is required for each delayed cost and avoided cost; however, there may be certain circumstances under which a calculation will not be performed. Any decision to not assess an Economic Benefit penalty needs to be documented in the file through the Peer Review Memo and/or the Penalty Computation Worksheet or some similar mechanism.

3. Guidance Documents

In addition to this guidance document, please refer to DEP Directive 923 Settlement Guidelines for Civil and Administrative Penalties, page 10 for more information on assessing Economic Benefit and the statutory caps associated with them.

4. Considerations for Pursuing or Adjusting the Economic Benefit Component

4.1 Determination and Calculation

Each violation should be evaluated to determine if an Economic Benefit was gained from a facility or site's noncompliance. When Economic Benefit of noncompliance above the de minimis threshold is identified, an Economic Benefit calculation should be performed.

4.2 Calculation Negotiations

Facilities will be provided the opportunity for adjustments to the Economic Benefit calculations if they can obtain quotes or estimates with different values from the ones calculated by department staff. To ensure the most accurate figures are used, estimates or quotes with detailed repair/replacement/labor costs that capture all components of the initial calculation can be provided by the respondent. Enforcement should not be delayed by waiting on estimates or quotes to be provided. The initial calculation should be used when estimates are not provided.

5. Economic Benefit Determination for Common Violations

Assessing Economic Benefit often represents a commitment of resources when calculating delayed or avoided costs. If it is determined by best professional judgment that the noncompliance was caused beyond the facility's control and/or of little-to-no Economic Benefit gained, it is reasonable to not proceed with formal Economic Benefit calculations. However, you must still document this decision in the Peer Review Memo and/or file along with the reasoning behind not pursuing Economic Benefit.

5.1 Wastewater Common Violations

- Effluent limit exceedances as determined by self-monitoring reports (DMRs)
  - Were the exceedances attributed to failure to properly maintain or operate treatment or monitoring equipment?
  - If yes, such negligent activities should be identified, and the expenses associated with them investigated to calculate Economic Benefit.

- Failure to collect or analyze samples
  - Is it a newly permitted facility that is not familiar with their monitoring requirements?
  - Is there a history of missed sampling events?
  - Is there sufficient staff available to timely collect samples?
  - Does the facility have the proper equipment to collect samples?
  - Does the facility do some or all of its own analysis and is it being done according to proper methodology?

*If any of the criteria above is not being met, Economic Benefit for delayed and/or avoided costs should be assessed.

- Failure to implement required work practices (drying bed maintenance, blower maintenance, sprayer, maintenance of RIBs – See Wastewater Example 11.4.)
  - If the work practice(s) is significant in nature, or failure to perform the work practices is from negligence and substantially interferes with the ability to determine compliance, then Economic Benefit for avoided costs should be assessed.

- Failure to install or operate pollution control equipment or devices
  - Economic Benefit for delayed and/or avoided costs should always be assessed for violations where there was a blatant disregard of the rules or responsibilities and failure to install or operate pollution control equipment or devices.

5.2 Stormwater Common Violations

- Failure to create or update the SWPPP
  - Did the permittee or authorized representative complete the SWPPP with all required information outlined in the CGP?
  - Did the permittee or authorized representative amend the SWPPP:
    - Whenever there was a change in design, construction, operations or maintenance that has a significant effect on the potential for the discharge of pollutants to the water of the United States?
    - If the SWPPP proves to be ineffective in eliminating or significantly minimizing pollutants from sources identified under Part IV.D. (Contents of the Plan) of the permit, or in otherwise achieving the general objectives of controlling pollutants in stormwater discharges associated with industrial activity?
  - If any of the criteria above are not being met, Economic Benefit for delayed costs should be assessed.

- Failure to collect or analyze samples

- Was lack of collection or analysis of samples due to laboratory or consultant error?
- Was the facility inactive or unstaffed during the time missing samples?
- Was the facility impacted by adverse weather conditions?
- If failure to collect or analyze samples occurred for any reason other than what is listed above economic benefit for avoided costs should be assessed.

*Note: MSGP Analytical Monitoring Enforcement is processed through DEP Tallahassee staff.

- Failure to install or maintain BMPs

  - Did the permittee or authorized representative maintain or install BMPs within 7 days after BMP deficiencies are discovered?
  - Was the failure of the BMPs caused by an abnormal event and not the result from lack of maintenance or installation?
  - If failure to install or maintain BMPs occurred for any reason other than what is listed above economic benefit should be assessed.

- Failure to conduct required self-inspections (Weekly CGP, ACSCE, Routine MSGP Facility Inspection)

  - Was the MSGP facility inactive or unstaffed during the period of missing inspections?
  - Was the self-inspection temporarily suspended by meeting conditions set in CGP Part 6.5?
  - If failure to conduct required self-inspections occurred for any reason other than what is listed above economic benefit should be assessed.

6. Economic Benefit Penalty Caps and De Minimis Thresholds

6.1 Wastewater Penalty Caps & De Minimis Thresholds

Economic Benefit maximum penalty amounts are based on the plant capacity. Determine the Economic Benefit Penalty Cap for the appropriate plant capacity using the table below.

Economic Benefit considered to be de minimis is not required to be assessed. De minimis thresholds were established as 10% of the penalty cap. These de minimis thresholds should not apply to direct cost calculations (permits, sampling, and spills) as identified below, without additional justification. In some instances, the de minimis thresholds can be used for applying a minimal economic benefit assessment in the face of great uncertainty with the calculation.

Note that the caps are only a recommendation. District discretion may be used to go above the caps established for plant capacity depending on the nature of costs savings of noncompliance.

Plant Type	Design Capacity	Economic Benefit Penalty Caps	Economic Benefit De Minimis Threshold
Type I	500,000 GPD or greater	$15,000 Max	$1,500 Minimum
Type II	100,000 GPD to 499,999 GPD	$7,500 Max	$750 Minimum
Type III	2,000 GPD to 99,999 GPD	$5,000 Max	$500 Minimum

* Note: For Industrial Wastewater Treatment facilities, use flows as the basis for Economic Benefit penalty caps.

6.2 Stormwater Penalty Cap & De Minimis Thresholds

Economic Benefit maximum penalty amounts for Construction Generic Permits (CGPs) are based on the type of permit and the acreage of the site.

Economic Benefit maximum penalty amounts for MSGPs are based on the presence or absence of analytical monitoring requirements. The analytical monitoring requirements are established in the MSGP and are based on the Standard Industrial Classification (SIC) code(s) under which the facility operates.

Economic Benefit considered to be de minimis is not required to be assessed. De minimis thresholds were established as 5% of the penalty cap. These de minimis thresholds should not apply to direct cost calculations (permits and sampling) as identified below, without additional justification. In some instances, the de minimis thresholds can be used as a shorthand for applying a minimal economic benefit assessment in the face of great uncertainty with the calculation.

Note that the caps are only a recommendation. District discretion may be used to go above the caps established depending on the nature of costs savings of noncompliance.

CGP

Permit Type	Acreage	Economic Benefit Penalty Caps	Economic Benefit De Minimis Threshold
Large Construction Generic Permit	≥ 5 Acres	$15,000 Max	$750 Minimum
Small Construction Generic Permit	1-4.99 Acres	$7,500.00 Max	$375 Minimum

MSGP

Presence of Analytical Monitoring Requirements	Economic Benefic Penalty Cap	Economic Benefit De Minimis Threshold
Yes	$15,000 Max	$750 Minimum
No	$7,500 Max	$375 Minimum

7. Peer Review Process for Economic Benefit

- When the Division of Water Resource Management Peer Review Committee receives a request to review a Peer Review Memo, the committee will:
    - Review the violations for Economic Benefit applicability.
    - Review district calculations for Economic Benefit penalties.
    - Review violations in the Peer Review Memo that warrant an Economic Benefit penalty that were not considered by the district. If the Division thinks further Economic Benefit should be considered, the committee will recommend an Economic Benefit penalty and provide a calculation (if requested) to address these violations for District consideration.
    - Present all recommendations to Division management for review prior to discussion with the district.
    - Set up a time for Division and District staff and management to discuss Division's recommendations (this meeting will be scheduled in accordance with each District's preferences).

- Any permit fee, failure to sample, or SSO violation should have an Economic Benefit penalty associated with it regardless of the dollar amount.

- All Peer Review Memos and/or penalty calculation worksheets must have language or calculations that address Economic Benefit. If Economic Benefit is not being pursued (calculated or assessed), language must be added in the memo or penalty calculation sheet explaining the specific details why it will not be pursued. See the examples below.
    - "Economic Benefit was considered but deemed not appropriate as the (effluent violations/BMP failures/benchmark exceedance(s)) were not caused by a lack of maintenance, failure to update equipment or completion of necessary upgrades."
    - "Economic benefit was calculated at $xxx.xx, however the Department is reducing the assessment by xx%. After lengthy compliance assistance efforts, the regulated entity has committed to investment expenditures such as [pick (CMOM update, material replacements, proactive improvements, studies, new training regimen, etc.)] which will result in reduced non-compliance, increased public and environmental safety and stronger infrastructure for the future."
    - "Economic Benefit calculation was reasonably estimated to be below the de minimis threshold and because there were no direct cost triggers (see EcBen guidance), assessment of economic benefit in this instance has been deemed not appropriate."

8. Direct Cost Calculations

The following violations will almost always have an Economic Benefit associated with them. These are strongly recommended be calculated and added to the total penalty amount. The rational is that these violations are avoided costs which automatically put the facility in non-compliance. These three violations will be assessed as dollar-for-dollar Economic Benefit with no formula adjustments. De minimis thresholds do not apply.

- **Failure to timely renew or obtain an operating permit.**
  To determine the costs of a domestic or industrial wastewater permit or a Stormwater permit refer to Regulatory Program and Surveillance Fees for Wastewater Facilities or Activities Discharging to Surface Waters, 62-4.052, F.A.C. for the permit and application fee information. If the facility has an NPDES permit or will be required to have an NPDES permit, the annual surveillance fees will also need to be applied to the Economic Benefit costs.

  In the event the facility already had a permit, but failed to timely renew it, calculate the number of months they operated without a permit. This is done by determining the fee of a 5-year operating permit, dividing the fee by 60 months, and then multiplying that number by the number of months they were operating without a permit. This will be the prorated cost savings.

  If the entity never had a permit, determine the number of months or years the facility was in operation and use the same procedure above to calculate their Economic Benefit.

- **Failure to collect samples as required by permit**.
  When a facility fails to collect samples according to their permit, calculate the Economic Benefit savings based on the type and number of samples they failed to collect. Appendix B Wastewater Costs lists the typical costs that can be expected by analyte.

- **Failure to treat sewage as part of an SSO.**
  Raw water sewage spills have an Economic Benefit component associated with the savings of the cost to treat the spilled unrecovered volume. Therefore, an Economic Benefit penalty should be calculated based on the unrecovered volume released. See Example Calculations below for treatment cost savings.

9. Economic Benefit Formula

EB = AC(1-T) + DC(I), where:

EB = Economic Benefit
AC = Avoided Costs
DC = Delayed Costs
I = IRS Interest Rate for Underpayments
T = Corporate Tax Rate
NOTE: Values for the IRS Interest Rate (I) and Corporate Tax Rate (T) will be updated annually on the Penalty Calculation Worksheet (PCW). All calculations should be done with the current rates at the time of calculation which can be found on the PCW.

10. Wastewater Treatment Facility Construction Costs

To calculate the Economic Benefit of failure to maintain or install a specific treatment component, first determine what it would cost to construct the whole plant. This is done by calculating the designed flow by a specific dollar amount per gallon. Once the treatment plant costs are known, the cost for each treatment component can be calculated using the table below.

Standard costs to construct a wastewater treatment plant ranges from $6.00 to $8.00 per gallon of design flow. Begin with a suggested calculation based on $6.00 per gallon.

These figures were obtained in 2018 by contacting a wastewater consultant for quotes.

Specific Treatment Components	Percent of Total Treatment Plant Costs	Notes
Headworks - Grit and Screens	10%	-
Aeration Basin - Bubble Grids / Blowers	26%	-
Clarification - Circular	20%	-
Digestion - Blowers and Diffusion	12%	-
Biosolids - Belts and Centrifuge	9%	-
Odor Control	3%	-
Disinfection - Gas/Liquid (UV can cost twice as much)	10%	2.55% (value from 6 bids of new 1.5 MGD plant Chlorinated contact chamber and effluent pumps, piping, weirs, stop plates, stairs, and related equipment.) Project number 64180. **This percentage was obtained from the Water Restoration Assistance Program.
Filters - Disk or Media	10%	-
Irrigation/Land Application	$15,000 to $20,000 per Acre	-

11. Wastewater Example Calculations

Example 11.1: Delayed Costs of an Odor Control System

EB = ~~AC(1-T) +~~ DC(I), where
EB = Economic Benefit
~~AC = Avoided Costs~~
DC = Delayed Costs
I = IRS Interest Rate
~~T = Corporate Tax Rate~~

Calculate the Economic Benefit for the delayed installation of an odor control system by the permittee. The annual average design flow of the plant is 1 MGD. Use the low end of the plant construction costs as the basis of our calculation.

Total Cost of the Wastewater Treatment Plant
1,000,000 gallons per day X $6.00 per gallon = $6,000,000

3% (see above table) of the plant's total construction costs is needed to build the odor control system
$6,000,000 x 3% = $180,000

Calculate the delayed Economic Benefit penalty based on a 5% annually accrued interest rate
EB = DC(I), where
EB = Economic Benefit
DC = Delayed Costs = $180,000
I = IRS Interest Rate = 5% (Based on 2018 IRS Interest Rate for Underpayments) or $.05

$180,000 x 5% = $9,000

Calculate the number of years they operated out of compliance by the annually accrued interest earned.
EB = $9,000 x 2 years = $18,000

Alternate Calculation for Monthly Costs

If the facility has been operating out of compliance for 2 years and 6 months, determine how much interest they were earning monthly to calculate their Economic Benefit penalty.

1) Convert the annual percentage rate to a decimal format (by dividing by 100) 5% annual rate / 100 = 0.05 annual

2) Divide the monthly rate by 12 months
0.05 annual / 12 months = 0.0042 monthly

3) Calculate the monthly interest on $180,000 (the cost savings for the odor control equipment)

0.0042 monthly X $180,000 = $750 per month

4) Calculate the accrued Economic Benefit for the time they operated without the odor control system
$750 per month X 30 months (2.5 years) = $22,500

Example 11.2: Treatment Costs

This is an example where the above Economic Benefit formula should not be used.

Formula for Calculating Sewage Treatment Costs for Spill/Release Economic Benefit Wastewater Spill/Release Amount X Cost to Treat Per Gallon = Economic Benefit Cost to treat /per gallon = $.0033

Costs to treat estimates are based on the 2016 Florida Benchmarking Consortium data where wastewater collection and treatment costs were averaged (min, avg, max) to determine the final avoided costs.

Treated wastewater spills should not have Economic Benefit assessed for treatment costs. Other areas such as spray field maintenance costs could be evaluated for Economic Benefit for treated wastewater overflows.

Example 11.2 A: Raw Sewage Spill

Total final volume spilled: 1,000,000 gallons 1,000,000 X $.0033 = $3,300
No cost reductions for raw sewage. Costs were not expended for treatment. Economic Benefit: $3,300

Example 11.2 B: Partially Treated Sewage Spill without Disinfection

Total volume spilled: 1,000,000 gallons 1,0000,000-gallon X $.0033 = $3,300
A 25% reduction should be applied for a partially treated spill without disinfection because costs were expended in the treatment of that spill volume.
$3,300 X 0.25 = $825 Reduction
Economic Benefit: $3,300 - $825 = $2,475

Example 11.2 C: Partially Treated Sewage Spill with Disinfection

Total volume spilled: 1,000,000 gallons 1,0000,000-gallon X $.0033 = $3,300
A 50% reduction should be applied for a partially treated spill with disinfection because costs were expended in the treatment of that spill volume.
$3,300 X 0.50 = $1,650 Reduction
Economic Benefit: $3,300 - $1,650 = $1,650

Example 11.3: Avoided Costs of Lack of Certified Operator

EB = AC(1-T) ~~+ DC(I)~~, where
EB = Economic Benefit
AC = Avoided Costs

~~DC = Delayed Costs~~
~~I = IRS Interest Rate~~
T = Corporate Tax Rate

Avoided costs are much more stringent when calculating a penalty because the facility cannot go back and fix or make corrective actions.

As an example, calculate the Economic Benefit for the avoided costs of not having a certified operator employed at a wastewater treatment plant for 18 months. The operators fee for managing the plant is $1,500 a month.

EB = AC(1-T)
AC = 18 months x $1,500/month =
$27,000 EB = $27,000 (100% - 21%)
EB = $27,000 (79%) =
$21,330 EB = $21,330

Example 11.4: Avoided Costs of Lack of Equipment Calibration (Work Practice)

EB = AC(1-T) + DC(I), where
EB = Economic Benefit
AC = Avoided Costs
~~DC = Delayed Costs~~
~~I = IRS Interest Rate~~
T = Corporate Tax Rate

Failure to implement required work practices is significant in nature, includes 'failure to perform the work practices is from negligence' and 'substantially interferes with the ability to determine compliance'.

As an example, calculate the Economic Benefit for the avoided costs of not conducting weekly calibration and verification of field meters (Total Residual Chlorine, pH, Conductivity) for 58 weeks. The calibration/verification of field meters takes on average 1 hour of labor/week and costs $2,124.69 annually in buffers and standards. Labor rates for a Class C operator are $40,668/Year.

All cost used in this calculation were pulled from Appendix B sections "Labor Costs" and "Standards and Solutions Costs".

$$Labor\ Costs = \frac{\$40{,}668}{Year} X \frac{1\ Year}{12\ Months} X \frac{1\ Month}{4\ weeks} X \frac{1\ week}{40\ hours} = \$21.18/Hour$$

$$Buffer\ \&\ Standards\ Cost = \frac{\$2{,}124.69}{Year} X \frac{1\ Year}{12\ Months} X \frac{1\ Month}{4\ weeks} = \$44.26/Week$$

Avoided Costs = (Labor Costs + Buffer & Standards Costs) X # of calibration/verifications missed
EB = AC(1-T)
AC= ($21.18 + $44.26) X 58 Weeks = $3,795.52
EB= $3,795.52 (100%-21%)
EB= $3,795.52 (79%) = $2,998.46
EB= $2,998.46

12. Stormwater Example Calculations

Example 12.1: Delayed Cost of Silt Fence Installation.

EB = ~~AC(1-T)~~ + DC(I), where
EB = Economic Benefit
~~AC = Avoided Costs~~
DC = Delayed Costs
I = IRS Interest Rate
~~T = Corporate Tax Rate~~

Calculate the Economic Benefit for the delayed costs of silt fence installation of 7,000 linear feet for 2 months.

1) Total Cost of BMP
   7,000 Linear Feet x $1.96/Linear Foot= $13,720.00
2) Calculate the delayed Economic Benefit penalty based on a 5% annually accrued interest rate.
   EB=DC(I)
   EB= Economic Benefit
   DC= Delayed Cost= $13,720.00
   I = IRS Interest Rate = 5% (Based on 2018 Interest Rate for Underpayments) or 0.05

   $13,720.00 x 5% = $686.00/Year
3) Divide the total cost per year by 12 months

$$\frac{\$686.00}{Year} X \frac{1\,Year}{12\,Months} = \$57.17/month$$

4) Multiply the number of months they operated out of compliance by the delayed cost. In this case we will use 2 months.

   EB = $57.17 x 2 months = $114.34

Alternate Calculation for Weekly Costs

If the facility has been operating out of compliance for 7 weeks, determine how much interest they were earning monthly to calculate their Economic Benefit penalty.

1) Convert the annual percentage rate to a decimal format (by dividing by 100)
   5% annual rate / 100 = 0.05 annual
2) Divide the annual rate by 52 weeks
   0.05 annual / 52 weeks = .00096
3) Calculate the weekly interest on $13,720 (the cost savings for not installing a silt fence)
   .00096 weekly x $13,720 = $13.17 weekly
4) Calculate the accrued Economic Benefit for the time they constructed without the silt fence installed.
   $13.17 per week x 7 weeks = $92.19

Example 12.3: Delayed Cost of three BMPs

EB = ~~AC(1-T)~~ + DC(I), where

EB = Economic Benefit
~~AC = Avoided Costs~~
DC = Delayed Costs
I = IRS Interest Rate
~~T = Corporate Tax Rate~~

Calculate the Economic Benefit for the delayed costs of 2,500 linear feet of silt fence installation, one trackout protection device and two inlet protection devices.

1) Total Cost of BMPs
   2,500 Linear Feet of Silt Fencing X $1.96/Linear Foot = $4,900.00
   1 Soil Tracking Prevention Device x $2606.03/Each = $2,606.03
   2 Inlet Protection Systems X $110.57/Each = $221.14
   Total = $7,727.17

2) Calculate the delayed Economic Benefit penalty based on a 5% annually accrued interest rate.
   EB=DC(I)
   EB= Economic Benefit
   DC= Delayed Cost= $7,727.17
   I = IRS Interest Rate = 5% (Based on 2018 Interest Rate for Underpayments) or 0.05

   $7,727.17 X 0.05 = $386.36

3) Multiply the number of years they operated out of compliance by the annual accrued interest earned, e.g. two years.

   $386.36 X 2 years = $772.52 worth of Economic Benefit.

*The monthly calculation from Example 1 can be used as an alternative or weekly in Alternate Calculation example.

Example 12.4: Delayed Cost of Incomplete or Amended SWPPP

EB = ~~AC(1-T)~~ + DC(I), where
EB = Economic Benefit
~~AC = Avoided Costs~~
DC = Delayed Costs
I = IRS Interest Rate
~~T = Corporate Tax Rate~~

Calculate the Economic Benefit for the delayed costs of updating two sections of an MSGP SWPPP for one year.

1) Total Cost of SWPPP

   $1,500 per section X 2 sections= $3,000

2) Calculate the Economic Benefit for the delayed cost of not updating the SWPPP.

   EB = $3,000.00 X 0.05 = $150/Year

Example 12.5: Delayed Cost of three MSGP BMPs

EB = ~~AC(1-T)~~ + DC(I), where
EB = Economic Benefit
~~AC = Avoided Costs~~
DC = Delayed Costs
I = IRS Interest Rate
~~T = Corporate Tax Rate~~

Calculate the Economic Benefit for the delayed installation of an oil water separator, five auto fluid drip pans, and two secondary containment for 55-gallon drums.

1) Total Cost of BMPs
   1 oil water separator device X $1,000.00/Each= $1,000.00
   5 auto fluid drip pans X $100.00/Each = $500.00
   2 secondary containments for 55-gallon drums X $85.00/Each= $170.00
   Total = $1,670.00

2) Calculate the delayed Economic Benefit penalty based on a 5% annually accrued interest rate.
   EB=DC(I)
   EB= Economic Benefit
   DC= Delayed Cost= $1,670.00
   I = IRS Interest Rate = 5% (Based on 2018 Interest Rate for Underpayments) or 0.05

   $1,670.00 X 0.05 = $83.5/year

3) Multiply the number of years they operated out of compliance by the annual accrued interest earned. For example, 2 years.

   $83.5 X 2 years = $167.00 Economic Benefit

Example 12.6: Avoided Cost of a Rolled Erosion Control on a Soil Stockpile

EB = AC(1-T) + ~~DC(I),~~ where
EB = Economic Benefit
AC = Avoided Costs
DC = ~~Delayed Costs~~
I = ~~IRS Interest Rate~~
T = Corporate Tax Rate

Calculate the Economic Benefit for the avoided costs of rolled erosion control installation on a stockpile totaling 1,500 square yards.

1) Total Cost of BMP

   (Rolled Erosion Control Coverings X $3.31/ Square Yard) X (1,500 Square Yards) = $4,965.00

2) Calculate the Economic Benefit for the avoided cost of not installing the 1,500 square yards of rolled erosion control.

   EB = $4,965.00 X (1- .21) = $3,922.35

Example 12.7: Avoided Cost of Annual Comprehensive Site Compliance Evaluation (ACSCE) & Periodic Inspections

EB = AC(1-T) + ~~DC(I),~~ where
EB = Economic Benefit
AC = Avoided Costs
DC = ~~Delayed Costs~~
I = ~~IRS Interest Rate~~
T = Corporate Tax Rate

Calculate the Economic benefit for avoided costs of missed routine and annual inspections for three years.

1) Calculate the total cost of missed inspection
   - Avoided Costs (AC): Periodic facility inspections
     - Staff wage/hr.= $16.80/hr.
     - Frequency= 1/month
     - # of monitoring hours= 1 hr.

Missed Routine Inspections = $\frac{1\ Inspection}{Month} X \frac{12\ Months}{1\ Year} X\ 3\ Years = 36\ inspections$

1 Inspections X $\frac{1\ Hour}{1\ Inspection} = 36\ Hours$

36 Hours X $\frac{\$16.80}{Hour} = \$604.80$

   - Avoided Costs (AC): ACSCE
     - Staff wage/hr.= $16.80/hr.
     - Frequency= 1/yr.
     - # of monitoring hours= 2.0 hr.

3 Missed Inspections X $\frac{2\ Hour}{1\ Inspection} = 6\ Hours\ work$

6 Hours X $\frac{\$16.80}{Hour} = \$100.80$

Total Cost of Missed Inspections = $705.60

1) Calculate the Economic Benefit for the avoided cost of not conducting the annual and routine inspections.

EB = (1-.21) X $705.60 = $557.42

Appendix A: Wastewater and Stormwater Costs

Wastewater and Stormwater costs were copied from quotes obtained from grant and loan applications from the Water Restoration Assistance Program. The applications were from 2012 to 2018 and contained most of costs that could be identified with wastewater treatment. They have been compiled into the tables below for easy reference.

Stormwater costs were also collected from public records of projects completed by the Florida Department of Transportation and Department of Environmental Protection. Some stormwater costs were obtained through documents provided to FDEP by EPA or online BMP stores. Stormwater salary information comes from 1,768 data points collected directly from employees, users and past and present job advertisements on the Indeed website in the past 36 months from 12/14/2020 and based on Florida specific salaries. Stormwater costs were also obtained from EPA Region 4 guidance provided to DEP in May 2020. In February 2025, appendix costs were updated to reflect an increase in minimum wage. Stormwater Pollution Prevent Plan (SWPPP) update and amendment costs for Construction Generic Permit (CGP) and Multi-Sector Generic Permit (MSGP) is estimated based on the total cost of SWPPP development divided by the number of permit required sections.

Grants/Loans Project Costs

Project List					
Project Number	**Sponsor Name**	**Start Date**	**Loan Amount**	**Description**	**OCULUS Document Link**
48038	Orange County	6/25/2012	$6,118,877.00	This project consists of the rehabilitation or replacement of three of the County's master pump stations (#3006, #3178 & #3597). These stations have reached the end of their useful life. The new facilities will greatly reduce the chance of sewage overflows.	Project 48038 Documentation
13030	Opa-Locka	5/26/2015	$7,043,989.00	The project is for the rehabilitation of the wastewater collection system to address frequent pipe break/leaks and, to alleviate sewer backups caused by inflow and infiltration. The project will also reduce ground and surface water contamination caused by raw sewage leaking from the broken pipes. A new lift station, gravity sewer and force main system is included in the request. Stormwater work will be incorporated into the construction as well. This improvement will reduce flooding and improve water quality by providing treatment.	Project 13030 Documentation
53033	Lake Wales	12/20/2016	$3,247,515.00	The proposed project will extend water and sewer utilities to the western portion of the City's service area along SR 60W from US 27. Construction will include the installation of approximately 27,000 linear feet of 6-inch to 12-inch force main and a new lift station.	Project 53033 Documentation
8025	Charlotte County	1/4/2016	$10,727,971.00	The proposed projects consist of performing upgrades to the East Port Water Reclamation Facility (EPWRF) and, constructing new wastewater transmission facilities. Additional capacity is needed at the East Port Water Reclamation Facility due to the removal of septic tanks occurring in the East and West Spring Lakes project. The Stage 5 improvements at the EPWRF include the construction of a new high service pump station with expansion capability to 18 MGD and, the conversion of the existing reject pond into a reclaimed water storage pond. Also, force mains will be constructed to accommodate the additional flow to the East Port Water Reclamation Facility. The proposed projects are needed to help reduce the nutrient loading into the Charlotte Harbor estuary and tributary water.	Project 08025 Documentation
66023	DeFuniak Springs	2/28/2017	$1,056,869.00	Phase I of the project will rehabilitate nine lift stations and perform 86-point repairs. The remaining phases of proposed work include the rehabilitation or replacement of approximately 109,000 linear feet of gravity sewer and, the rehabilitation of 318 manholes. Future phases will also include multiple mechanical and system upgrades at the City's wastewater treatment plant. The proposed work will improve the integrity of the system by rehabilitating aging and deteriorated wastewater facilities.	Project 66023 Documentation
52063	St. Petersburg	2/23/2016	$53,933,565.00	This loan will provide financial assistance to upgrade the biosolids treatment facilities at the Southwest Wastewater Reclamation Facility. The upgrade will include a temperature phased anaerobic digestion process that will produce class-A biosolids and will also include a digester gas capture and cleaning system for the methane produced by the anaerobic digestion process. The class A biosolids will be used as a fertilizer and the cleaned methane gas will be used to fuel the city's sanitation vehicles. All additional gas produced will be used to generate electricity.	Project 52063 Documentation
32020	Marianna	7/5/2012	$4,375,466.00	City-wide collection and transmission facilities rehab/replacement, reduce inflow and infiltration and, reduce exfiltration.	Project 32020 Documentation
"05090"	Melbourne	5/4/2015	$6,539,333.00	Furnish all labor, materials, equipment and incidentals required for the energy efficiency improvements to the 7.0 MGD ADF D.B. Lee WRF.	Project 05090 Documentation
48042	Orlando	8/19/2013	$2,622,710.00	The sewer line on Dahlia Drive will be replaced with a larger diameter pipe and, four underground lift stations will be rehabilitated. The Dahlia Drive pipeline is over 50 years old, is experiencing failures and, needs additional capacity to avoid sewer overflows. The lift station rehab will eliminate a safety hazard and enhance the reliability of the sewer system.	Project 48042 Documentation

Project List					
Project Number	**Sponsor Name**	**Start Date**	**Loan Amount**	**Description**	**OCULUS Document Link**
48043	Orlando	3/27/2014	$2,556,321.00	Construct modifications to Lift Stations No. 16, 17, 52 and 57. The modifications will eliminate a safety hazard and improve the efficiency of pumping operations.	Project 48043 Documentation
13181	North Miami	7/25/2014	$2,968,319.00	Collection system slip-lining to correct excessive inflow and infiltration problems in13 basins: Arch Creek Plaza, Bellows East, FIU West, Futura, Hospital, Ivan Tors, K, Kadell Heights, K-Industrial, Rodan, SS-2, SS-3. Treatment of the City's wastewater is provided by the Miami-Dade North District Wastewater Treatment Plant.	Project 13181 Documentation
67022	Vernon	11/16/2015	$305,640.00	Based on SSES, City will replace sewer mains and manholes to reduce excessive inflow and Infiltration. This will be a principal forgiveness loan for $2,952,410 with $2,365,564 principal forgiveness.	Project 67022 Documentation
26041	Clewiston	11/15/2016	$620,670.00	The proposed project includes the construction of a new 12 ft. by 12 ft. wet well, four new submersible master pump stations, valve box, electrical panel and controls, collection manhole, meter, miscellaneous piping and appurtenances.	Project 26041 Documentation
53132	Winter Haven	3/23/2018	$2,612,566.00	The proposed project will construct additional influent screening capacity at the City's Wastewater Treatment Facility No. 3. It will also extend an existing wastewater force main and an existing reclaimed water main approximately 4,400 feet along the recently constructed Logistics Parkway. This project will improve the operation of the treatment facility and, will enable the City to extend wastewater and reclaimed water service southward to the State Road 60 corridor.	Project 53132 Documentation
6240	Pompano Beach	3/19/2018	$3,465,528.00	Construction of up to 24 stormwater projects primarily to alleviate flooding. However, most of the projects also include stormwater treatment components (e.g. exfiltration trenches or dry holding ponds) that will improve water quality and recharge the aquifer. The first project is the Avondale Stormwater Improvements.	Project 06240 Documentation
44011	Key Colony Beach	11/7/2016	$5,234,016.00	The City of Key Colony Beach must meet Advanced Wastewater Treatment limits, per Chapter 403.086, Florida Statues, for total nitrogen (TN) and total phosphorous (TP). This project will accomplish the required TN reduction by adding the Integrated Surge Anoxic Mix (ISAM) system. The TP reduction will be achieved by adding a chemical feed system and, possibly alkalinity adjustments. The project also includes replacing the influent screening and the membranes which have reached the end of their useful life and adding biosolids dewatering to reduce operating cost and odor complaints. Modified membranes will reduce blower energy due to air scouring. Work will be completed on-site at Water Reclamation Facility (WRF). Reuse expansion is proposed for the future.	Project 44011 Documentation
59015	Sanford	4/18/2018	$6,000,000.00	Construction of a Class "A" Biosolids Management System at the Sanford North Water Reclamation Facility.	Project 59015 Documentation
3071	Parker	6/7/2017	$1,255,033.00	The proposed project will rehabilitate the City's wastewater collection and transmission system. The work will include the replacement of approximately 10,500 linear feet of force main and the rehabilitation of two pump stations and several manholes. The proposed work will improve the integrity of the system by rehabilitating aging and deteriorated wastewater facilities.	Project 03071 Documentation

Project List					
Project Number	**Sponsor Name**	**Start Date**	**Loan Amount**	**Description**	**OCULUS Document Link**
53031	Lake Wales	1/11/2016	$5,703,811.00	The proposed project consists of replacing the existing gravity sewer system for the Lift Station No. 16 service area. The existing gravity sewer system was determined to be substandard. It has inadequate pipe slopes and pipe cover, substandard pipe materials and deteriorating manholes. The proposed facilities will eliminate the historic sanitary sewer overflow problem and greatly reduce infiltration and inflow.	Project 53031 Documentation
50627	Niceville	5/23/2013	$440,188.00	Project proposes nine stormwater projects in several basins. The Evans Branch project consists of Meigs, Cypress, and Reynolds SWMF projects costing $1,725,936. The Thomas Branch project has two projects, McEvan and Boxer SWMF at a cost of $4,080,956. Hicks Branch and Bolton Bayou projects cost 3,590,305. Turkey Creek projects includes two projects and costs 1,240,734. Valparaiso Blvd, Linden St Drainage, Bayshore Place, and Palm Plaza projects cost 1,750,966. All projects are to improve stormwater quality and to abate flooding. The total cost of all projects are $11,993,528. This SRF loan would fund three projects: Linden Avenue Drainage Improvements Project, Turkey Creek Stormwater Enhancement Project, and Bayshore Place Drainage Project	Project 50627 Documentation
74508	North Miami Beach	11/13/2013	$3,791,486.00	The proposed project will consist of upgrades to ten existing wastewater pumping stations. These pumping stations have reached the end of their useful lives, have outdated components and must be upgraded in order to maintain the reliability of the sanitary sewer system.	Project 74508 Documentation
6043	Hollywood	5/30/2012	$11,226,991.00	This project consists of constructing a new deep injection well and a dual zone deep monitoring well to provide disposal of the concentrate streams. The injection zone will occur at the top of the Boulder Zone at a depth of approximately 3,000 feet below the land surface.	Project 06043 Documentation
41032	Bradenton	5/29/2012	$869,490.00	Phase 1 of Wares Creek Drainage Improvements - replace 9th Avenue West Bridge. This is the first phase of a project intended to supplement a USACE project by replacing four bridges and improving certain segments of the municipal stormwater system that will improve the water quality being discharged into Wares Creek. The future improvements will include catch basins and hydrodynamic separators for removal of TSS, oil, grease, heavy metals and debris. This 9th Avenue West Bridge replacement was identified as the first priority for this long-term project.	Project 41032 Documentation
13011	North Miami Beach	4/25/2012	$4,141,565.00	The proposed project consists of performing sanitary sewer system rehabilitation to remove stormwater inflow and groundwater infiltration from the City's system. The work is needed to provide a safe and reliable wastewater collection system and to reduce pumping and treatment costs. The City is charged for each gallon of water that they transmit to Miami-Dade County for treatment.	Project 13011 Documentation
41033	Bradenton	3/13/2013	$1,279,981.00	12TH/14TH AVE. BRIDGE REPLACEMENT & 20TH ST. DRAINAGE IMPROVEMENTS. The Wares Creek Drainage Improvements project will consist of replacing the 12th Avenue and 14th Avenue Bridges and 20th Street drainage improvements thereby improving certain segments of the municipal stormwater system and improving the water quality being discharged into Wares Creek.	Project6 41033 Documentation

Project List					
Project Number	**Sponsor Name**	**Start Date**	**Loan Amount**	**Description**	**OCULUS Document Link**
43212	Crestview	2/4/2013	$8,173,081.00	The Crestview WWTP Phase IV project will expand the treatment capacity to 4.1 MGD. This expansion will help accommodate the anticipated 2012 demand that is expected because of the additional personnel being relocated to the area through the Basin Realignment and Closure Program that is currently being implemented by US Dept. of Defense. Modifications will be made to the master lift station, WWTP, and RIBs.	Project 43212 Documentation
52081	Treasure Island	6/28/2016	$517,509.00	The City's proposed project consists of rehabilitation of Lift Stations Nos. 6, 7, 8 and 9. Specifically, this project includes the replacement of the influent pipes, discharge pipes, pumps, valves, fittings, and the electrical system (pump controls), as well as repairs to the walls of each wet well and various structural repairs such as top slabs and valve vaults.	Project 52081 Documentation
18042	Palm Coast	5/2/2016	$30,100,000.00	The proposed project consists of a combination of force mains, master lift station, and a new 2.0 MGD advanced wastewater treatment facility. Effluent will be disposed of using reclaimed water reuse and backup discharge facilities. Advanced Wastewater Treatment is required in accordance with the Apricot Rule to allow permitting of a backup reclaimed water discharge to Hulett Swamp.	Project 18042 Documentation
55012	St. Johns County	12/17/2017	$20,000,000.00	The proposed project will construct the Players Club Water Reclamation Facility, a 2.4-MGD advanced wastewater treatment plant. The new facility will handle the flows that are currently treated at the Players Club, Sawgrass and Inlet Beach Wastewater Treatment Plants. The project will also include the transmission facilities necessary to route the flow from the decommissioned plants to the new facility. The three existing plants are nearing the end of their useful lives and are suffering from increasing maintenance and reliability issues. The proposed facility will eliminate these issues and result in the County providing a higher level of wastewater treatment.	Project 55012 Documentation
48032	Orange County	10/29/2012	$2,887,165.00	The proposed project consists of performing sanitary sewer system rehabilitation to remove stormwater inflow and groundwater infiltration from the County's East Southwood Subdivision. The existing gravity sewer system was installed in the 1960s and must be replaced or rehabilitated to prevent sanitary sewer overflows and to provide a safe and reliable system.	Project 48032 Documentation
62511	Milton	5/25/2013	$1,355,338.00	The proposed project involves construction of a large diameter lift station and related force main to service low laying lands along Ward Basin Road Corridor and the eastern shores of the Blackwater River from U.S. 90 south to an area south of Interstate 10 near Hickory Mannock Road.	Project 62511 Documentation
32031	Cottondale	3/18/2013	$272,767.00	Rehabilitation of the city's wastewater treatment facility (WWTF) and off-site lift stations on Glastel Street and North Street. The work at the WWTF is necessary because the facility is not meeting effluent requirements and has been placed under a Consent Order by the Florida Department of Environmental Protection. The lift station on Glastel Street is currently out of service and needs to be rehabbed. In addition, the wet well needs to be replaced or relined. The North Street lift station is in good condition but needs an upgraded pump and fencing.	Project 32031 Documentation

Project List					
Project Number	**Sponsor Name**	**Start Date**	**Loan Amount**	**Description**	**OCULUS Document Link**
64180	Deltona	11/4/2013	$29,370,077.00	The proposed project consists of the construction of a (under phase IA) new 1.5 million gallons per day wastewater treatment facility. This project, the Eastern Water Reclamation Facility (EWRF), will include screening and grit removal, a four-stage biological nutrient removal (BNR) and membrane bioreactor (MBR) process, chlorine contact disinfection, and a reclaimed water effluent pump station. The biosolids treatment and disposal is proposed to meet Class AA treatment levels through a chemical neutralization process that includes aerated biosolids holding tanks, thickening, chemical neutralization, and dewatering by a screw press. The final product Class AA biosolids will be sold or given to local agricultural or nursery interests. Also, a 5.0 MG ground storage tank and reject storage will be constructed at the plant site. The effluent from the new plant will be connected to the existing reuse system. The project is needed to comply with Chapter 62-600.405, Florida Administrative Code.	Project 64180 Documentation
28410	Fort Walton Beach	10/16/2012	$15,012,691.00	The proposed project calls for the rehabilitation/modification of the Pump Station #1, the construction of a new 4-million gallon wet weather storage tank adjacent to the pump station, the installation of approximately 22,000 linear feet of new 20-inch ductile iron pipe (DIP) force main, 5,000 linear feet of 24-inch DIP force main and the abandonment of the entire length of existing 30-inch PCCP force main. The pump station rehab is needed to maintain the required capacity since the treatment has been moved from a City-owned WWTP to the regional county facility where the headworks is at a higher elevation. The force main is necessary because the existing pipe is old and deteriorated and a bridge replacement project would require replacement of that section anyway. The project also includes a tie-in to the recently constructed reclaimed water main and extending the 10-inch reclaimed water main 2,400 linear feet to provide irrigation to the City's newly planned Hedrick Recreational Facility. Also, a 4-inch reclaimed water line will continue to Pump Station #1 and the storage tank for maintenance cleaning.	Project 28410 Documentation
52021	Largo	3/2/2015	$73,216,406.00	The proposed projects include the following projects as a result of the Consent Order Corrective Actions: Additional funding for projects that include: 1. Improvements to the collection system and construction of a wet weather monitoring and pumping system to mitigate sanitary sewer overflows 2. Replacement of the facility's disinfection system to reduce gaseous chlorine and disinfection by-products 3. Replacement of the Wastewater Reclamation Facility's (WWRF) effluent, influent and pumping system and headworks improvements 4. Improvements to the WWRF treatment processes 5. Improvement of the WWRF biosolids drying facility 6. Reconstruction and rehabilitation of the WWRF operations, laboratory centers and mechanic's warehouse.	Project 52021 Documentation
64096	Daytona Beach	4/3/2017	$4,253,714.00	This work will consist of the construction of two 30-inch subaqueous force mains under the Halifax River with the upland force main installation on the west bank tying into an existing force main that will transmit the wastewater to the headworks at the Bethune wastewater treatment plant. Construction on the east bank will consist of the connection of the proposed 30-inch force mains to the existing 24-inch force main on South Peninsula Drive.	Project 64096 Documentation
3050	Springfield	1/3/2017	$1,817,369.00	The proposed project consists of rehabilitating and constructing new wastewater collection and transmission facilities. The proposed project will reduce the amount of infiltration and inflow entering into the City's collection system by replacing deteriorated pipes.	Project 03050 Documentation

Project List					
Project Number	**Sponsor Name**	**Start Date**	**Loan Amount**	**Description**	**OCULUS Document Link**
9013	Citrus County	5/1/2017	$12,440,100.00	The proposed project includes the construction of a new 1.5 mg advanced wastewater treatment facility and the replacement of the existing spray field with a rapid infiltration basin system. The existing Southwest Regional Water Reclamation Facility (Sugarmill Woods) wastewater treatment plant is a 0.7 mg secondary facility that does not provide adequate nutrient removal and does not have the capacity for the future service area that includes 5,098 homes currently on septic tanks. Also, the current spray field is inadequate to handle the projected flow from these additional homes. This project is needed to reduce the nutrients in the Chassahowitzka Springs and River and is identified in the projected basin management action plan.	Project 09013 Documentation
48046	Orlando	9/6/2016	$7,375,713.00	Demolish existing Lift Station No. 5 and construct a new Lift Station No. 5 on an adjacent property. The pumps and electrical equipment are beyond the end of their expected service lives and the station does not have adequate capacity to handle peak wastewater flows during wet weather.	Project 48046 Documentation
5062	Cocoa Beach	10/20/2014	$5,282,238.00	The sewer rehabilitation portion of this project includes cleaning and televising the laterals and sewer mains, repair of manholes, and repairing or replacing the sewer mains to eliminate excessive Infiltration and Inflow. The stormwater improvements portion of this project consist of the installation of state-of-the-art, new technology treatment trains. The project watershed sub-basins are along the Minutemen causeway which is the main street corridor for the City of Cocoa Beach. All project basins currently discharge untreated stormwater into the Banana River Lagoon. With these improvements, and installing a BMP treatment train, more nitrogen and phosphorus will be removed.	Project 05062 Documentation
59014	Sanford	3/20/2017	$6,338,715.00	The proposed project will construct the third and final phase of the Cloud Branch stormwater improvements. The existing stormwater system is inadequate. These improvements will alleviate localized flooding and will improve discharge water quality by removing trash and excess nutrients. The City is under a DEP Administrative Order to reduce nutrient loadings to the St. Johns River.	Project 59014 Documentation
8022	Charlotte County	4/3/2017	$3,747,229.00	East and West Spring Lake Central Sewers. WW080220 represents one of four contracts to construct new wastewater collection and transmission facilities for the residential properties in the East and West Spring Lake area. This portion of the project will construct a vacuum station and vacuum sewer for zones 11 and 12.	Project 08022 Documentation
25023	Bowling Green	6/6/2018	$5,879,461.00	The proposed project consists of constructing major modifications and improvements to the wastewater treatment facility including master lift station improvements; screening; grit removal system; flow equalization basin (surge tank); new carousel-type treatment process; effluent filtration, and electrical and piping modifications; instrumentation. In addition, the project will include the construction of approximately 12,750 linear feet of new 10-inch PVC effluent line and 2,300 linear feet of new 12-inch HDPE directional bores.	Project 25023 Documentation

Project List					
Project Number	**Sponsor Name**	**Start Date**	**Loan Amount**	**Description**	**OCULUS Document Link**
57001	Perry	3/1/2018	$8,210,145.00	The project involves the upgrade of the City of Perry's existing 1.25-million gallon per day (MGD) wastewater treatment facility (WWTF) and includes a new screening facility and grit removal system; a new oxidation ditch and secondary clarifier to replace the existing 0.75-MGD aeration lagoon and 0.5-MGD extended aeration package plant and supplement two existing secondary clarifiers; expansion of the existing chlorine contact tank; conversion of the existing aeration lagoon to an aerobic digester to supplement the existing aerobic digester; new biosolids drying beds; and a new WWTF reuse system. The project is needed to correct items of concern and replace items that have reached the end of their useful life, at the WWTF.	Project 57001 Documentation
59032	Florida Governmental Utility Authority (Chuluota)	12/20/2017	$1,420,664.00	The proposed project consists of the construction of a new 0.5 million gallon (MG) reclaimed water ground storage tank (GST) and pumping system. The pumping system will include two new 440 gallon per minute (gym) reclaimed water service pumps at the existing Chuluota wastewater treatment facility (WWTF) site. The proposed project will reduce the amount of reclaimed water land applied on the Chuluota spray field site and will maximize the reclaimed water flow to the City of Oviedo Public Access Reuse (PAR) System for residential irrigation. The project will also repurpose the existing on-site pond for reject storage and rehab the existing transfer pump station and repurpose it for repumping to the treatment plant disc filters or equalization basin. The pumping system will include two new 196 gym pumps and 215 LF of 4 inch PVC force main. With the new GST, an additional 27 MGY of reclaimed water will be available for the Oviedo Public Access Reuse (PAR) System.	Project 59032 Documentation
6120	Dania Beach	5/1/2014	$7,376,382.00	Rehabilitation of the existing stormwater system in SE Dania Beach to include the replacement of the pump stations along SE 5th Avenue with three new pump stations located on 3rd Avenue. The project will also replace and clean existing pipes, structures and outfalls.	Project 06120 Documentation
6122	Dania Beach	5/14/2012	$774,108.00	Phase III of the Infiltration and Inflow corrections to be performed by Dania Beach. The work will include repairing the sections of the lines that were identified in Phase I and II with cured in place lining. The work will be done at night to minimize impact to the residents of the area.	Project 06122 Documentation
30012	Bonifay	5/24/2012	$833,936.00	This project continues the I/I correction and pump station rehab work. The area to be rehabbed is bounded by Son-in-Law Road, North St., Dykes St. and Pine St. All terra cotta mains will be replaced as well as 180 manholes. Additionally, 6,000 feet of sewer lines and 20 manholes will be lined.	Project 30012 Documentation
4803D	Orange County	11/4/2013	$6,909,288.00	This project will replace the International Drive DIP force main by installing approximately 13,266 linear feet of 20 to 30-inch PVC force main. The existing force main will be converted to 20-inch reclaimed water main via slip lining and/or pipe bursting. The existing force main has deteriorated due to long-term exposure to hydrogen sulfide gas. The new reclaimed water main will conserve valuable potable water resources by providing additional reuse capacity (0.45 MGD).	Project 4803D Documentation

Project List					
Project Number	**Sponsor Name**	**Start Date**	**Loan Amount**	**Description**	**OCULUS Document Link**
35090	Tavares	6/27/2013	$6,438,944.00	This project includes the installation of 4,050 feet of new PVC gravity sewer lines, the replacement of 48,500 feet of gravity sewer, and the replacement of 2,000 feet of force main in the Community Redevelopment Area in downtown Tavares. This project is primarily intended to increase the capacity of the system in the downtown area but will also reduce the inflow and infiltration. Each of the lines to be replaced will be increased in size.	Project 35090 Documentation
6161	Coral Springs	1/9/2012	$1,037,813.00	Sanitary Sewer Rehabilitation in Coral Springs collection system to correct excessive inflow and infiltration problems.	Project 06161 Documentation
58070	North Port	3/5/2012	$2,982,385.00	Construction of an additional 13.2 MGD deep injection well to provide wet weather disposal with the facility.	Project 58070 Documentation
6080	Miramar	7/24/2017	$17,044,665.00	Construction of gravity sewers, a lift station and force mains to serve 775 residents and businesses and eliminate septic tanks. Phase II project constructed with their own funds, Miramar is requesting Phase III funding.	Project 06080 Documentation
18050	Flagler County	5/2/2018	$6,083,999.00	Rehabilitation and upgrade of the Plantation Bay WWTP to bring facility into compliance as required by FDEP's Administrative Order No. AO111NE. Specifically, the project includes the construction of one flow equalization tank with pretreatment equipment and bypass; one 0.5 million gallons per day (MGD) extended aeration package plant, which along with the current plant will enable the facility to meet Class I Reliability. The existing chlorine contact chamber will be repartitioned into three chambers and a new 1.0 million gallon pre-stressed concrete ground storage tank will be constructed for reject storage.	Project 18050 Documentation
48021	Apopka	12/7/2016	$46,403,959.00	The proposed project will upgrade and expand the Apopka Water Reclamation Facility to a flow rate of 8.0 million gallons per day. These additional treatment facilities are needed to satisfy a DEP consent order.	Project 48021 Documentation
36010	Cape Coral	10/16/2013	$52,873,542.00	This project consists of approximately 303,000 lineal feet of 8-inch, 3,000 lineal feet of 12-inch and larger gravity sanitary sewer lines, 256,000 lineal feet of 4-inch, 33,000 lineal feet of 6-inch, 10,000 lineal feet of 8-inch, 22,000 lineal feet of 12-inch, 15,000 lineal feet of 16-inch and 6,000 lineal feet of 20-inch and 24-inch reclaimed water irrigation lines for residential reuse. Additionally, the project will consist of approximately 49,000 lineal feet of sanitary sewer force mains (4-inch through 12-inch) and 18 duplex pumping stations.	Project 36010 Documentation
53061	Lakeland	4/21/2014	$1,301,890.00	Decommission Skyview WWTP and replace with a master pump station and force main to City of Lakeland WWTF via an upgraded City of Lakeland pumping station.	Project 53061 Documentation

Project List					
Project Number	**Sponsor Name**	**Start Date**	**Loan Amount**	**Description**	**OCULUS Document Link**
64090	Daytona Beach	6/23/2014	$21,862,799.00	Lift Station No. 10 and Infrastructure Improvements: constructing a new lift station with a wet well and submersible pumps, abandoning the existing lift station, lining the existing 30-inch prestressed concrete cylinder pipe to Well No. 44 with a cured in-place pipe lining system and constructing a new 30-inch DIP sanitary sewer force main from Well No. 44 to the Westside Regional Wastewater Treatment Plant. Orange Avenue Infrastructure Improvements Project: Stormwater Facilities: This project proposes upsizing the storm piping along Orange Avenue. Construction of additional inlets and installation of additional piping is proposed as needed to reduce ponding on the roadway. Reclaimed Water Facilities: A new 8-inch PVC reclaimed water line is proposed to be installed along the entire route of this project between Nova Road and South Beach Street. Wastewater Facilities: The City proposes to replace aging sanitary sewer piping to avoid failures. The existing 8-inch VCP sanitary sewer pipe along Orange Avenue from Keech Street to Marion Street is proposed to be removed and replaced with new 12-inch PVC pipe. Potable Water Facilities: This project proposes replacing existing 6-inch water main with new 6-inch and 12-inch DIP water main to improve the overall water distribution system in the vicinity of Orange Avenue.	Project 64090 Documentation
35092	Tavares	10/4/2012	$2,926,480.00	Construction of an administrative / training building, operations and maintenance building. The new buildings will house personnel needed for the new reclaimed water facilities.	Project 35092 Documentation
58030	Sarasota County	10/31/2012	$5,699,538.00	The project is for the Vacuum Sewer System in Phillippi Creek - Area N - Phase 2. This project will eliminate about 960 Septic Tanks and serves the population of 2,600.	Project 58030 Documentation
48031	Orange County	4/2/2012	$2,033,594.00	The proposed project will construct approximately 24,500 linear feet of 36-inch potable water main (SRF ineligible) and approximately 14,500 linear feet of 20-inch reclaimed water transmission main and will convert approximately 9,500 linear feet of existing 20-inch potable water main to reclaimed water main. The residential and commercial development growth in the County's South Service Area is increasing the water demand for domestic and irrigation usage. Construction of these reuse facilities will help to conserve valuable potable water, (approximately 1.57 MGD) resources.	Project 48031 Documentation
64012	Ormond Beach	2/6/2012	$5,839,878.00	Construct approximately 20,000 linear feet of nominal 16" diameter force main and 15,000 linear feet of reclaimed water main on US Highway 1 and Airport Road. This project will enhance the use of reclaimed water through the expansion into additional areas. Construction of the force main improvements on the US 1 corridor will help to alleviate conditions and reduce pressures by 10' to 20' discharge head conditions and also pick up un-sewered areas along the corridor from Pine Trails to Breakaway Trails.	Project 64012 Documentation

Project List					
Project Number	**Sponsor Name**	**Start Date**	**Loan Amount**	**Description**	**OCULUS Document Link**
51042	Dade City	2/23/2015	$4,178,378.00	The facility plan has been approved for Phase 1A and 1B only. This project includes improvements to 19 sewer lift stations to increase the efficiency of the pumping system and improve worker safety. It also includes the rehabilitation of the existing WWTP since the plant is near capacity. The work will include the replacement of the influent screen and influent pumps and an existing centrifugal blower, the addition of an odor control system and covers on two tanks and a ventilation system on one tank. It also includes the construction of an administration building and modifications to an existing building, grit separation unit, chlorine contact chambers, and various other components. This rehabilitation is needed because the components have been deteriorated and needs to be rehabilitated to meet compliance.	Project 51042 Documentation
84805	Oviedo	4/27/2012	$2,233,560.00	This project is one of several phases needed to supply reclaimed water to multiple neighborhoods in Oviedo. Oviedo does not have a treatment system. The City sends wastewater to Orlando for treatment. They get back reclaimed water for distribution to their residential areas. This phase is estimated to be able to provide 0.525 MGD of beneficial reuse.	Project 84805 Documentation
5051	Cape Canaveral	11/1/2016	$2,769,700.00	The project includes furnishing all labor, materials, equipment, restoration, and incidentals to install a blower and diffusers at the equalization tank, miscellaneous yard piping improvements including connections to existing pipe requiring wet taps, replace the existing aerator at the oxidation ditch and miscellaneous improvements at the oxidation ditch including, but not limited to, civil, structural, electrical, and controls improvements, installation of mist eliminating panels, DO probes and replacing stairs. Also included is all temporary bypass and internal recycle pumping operations, temporary erosion and sediment control for all areas as detailed on the plans and required by governing authorities. Other restoration activities include asphalt pavement, concrete, sidewalks, curbing, and signage.	Project 05051 Documentation
53044	Haines City	4/29/2015	$4,773,750.00	Construction of a regional biosolids composting facility. The composting facility is designed for recycling municipal biosolids from the Haines City WWTF and other municipal plants in the area. Regionally generated yard waste will be used as the amendment/bulking agent. The facility will produce compost products suitable for marketing and distribution as a Class AA material. Converting Class A biosolids into a Class AA compost product will reduce the likelihood of nutrient pollution runoff adversely affecting downstream water bodies.	Project 53044 Documentation
41034	Bradenton	4/14/2014	$1,082,166.00	17th Avenue West Bridge Replacement. The Wares Creek Drainage Improvements project will consist of replacing the 17th Avenue West Bridge Replacement thereby improving certain segments of the municipal stormwater system and improving the water quality being discharged into Warescreek.	Project 41034 Documentation
59050	Longwood	2/6/2017	$4,071,303.00	The proposed project will expand the City's wastewater collection system to the South Longwood area and eliminate approximately 240 septic tanks. This project will help prevent pollutants from entering the adjacent surface water bodies.	Project 59050 Documentation

Project List					
Project Number	**Sponsor Name**	**Start Date**	**Loan Amount**	**Description**	**OCULUS Document Link**
58044	Venice	3/6/2017	$960,166.00	The accepted planning document proposes the replacement of approximately 11,500 feet of sewers located in back yard easements (Eastgate Utilities) that have excessive inflow and infiltration, the addition of a 5 million gallon reclaimed water storage tank to allow the city to meet peak demand, and the conversion of wastewater force mains to reclaimed water mains to expand the reclaimed water system. In addition, two stormwater improvement projects are included for Osprey Avenue and Nokomis Avenue South that are intended to improve water quality and drainage. Currently, this project is limited to the reclaimed water distribution system improvements.	Project 58044 Documentation
8020	Charlotte County	4/2/2015	$19,125,090.00	East & West Spring Lake central sewers. The proposed project consists of constructing new wastewater collection and transmission facilities for the 2116 residential properties in the area. The proposed project will reduce the nutrient loading into the Charlotte Harbor estuary and tributary water bodies by removing the septic tanks that are currently being used in the project area.	Project 08020 Documentation
36083	Fort Myers Beach	8/14/2017	$5,520,000.00	The proposed project consists of the installation of new or replacement stormwater management systems throughout the Town of Fort Myers Beach due to the deteriorating conditions of the existing stormwater system, under-sized infrastructure that does not meet the level of service desired by the Town, and issues with nuisance flooding. The improvements for this program include approximately 100,000 linear feet (LF) of open drainage, 30,000 LF of closed drainage, 9,000 LF of cross drain, 600 drainage inlets, 90 outfall improvements with backflow preventers, 50 treatment boxes, and maintenance on 5,500 LF of existing systems. This project will increase the water quality discharged to Estero Bay by providing treatment ponds to capture and treat stormwater prior to discharging to the bay.	Project 36083 Documentation
53063	Lakeland	3/15/2017	$12,284,141.00	Under the direction of Schneider Electric, the City will implement a comprehensive, integrated solution that will reduce the Glendale Wastewater Reclamation Facility's energy usage, optimize the anaerobic digestion process, implement cogeneration, and address key capital needs. The major program elements include: the installation of a new combined heat and power system, new gas collection and gas conditioning system, new building to house gas conditioning equipment, instrumentation and controls, electrical system upgrades, upgrades to the sludge pumping and conditioning, and the replacement of heat exchangers.	Project 53063 Documentation
36041	Gateway Services Community Development District	3/23/2018	$3,050,000.00	The proposed project consists of the remediation of lake banks throughout the Gateway Services Community Development District (GSCDD) by the installation of an Anchored Reinforced Vegetation System (ARVS), such as Armormax, where severe erosion is a continuous problem. Also, in areas where erosion is less severe, the GSCDD plans to utilize alternative repairs such as regrading lake banks with imported fill, installing drains that direct water away from the slope, and other minor repairs. The erosion of the lake banks has caused the lakes to encroach into the adjacent residential properties and in some cases, created ledges. The proposed project will restore 8 lake banks to the original design with a goal to reach a 6:1 slope and provide protection from future erosion.	Project 36041 Documentation

Project List					
Project Number	**Sponsor Name**	**Start Date**	**Loan Amount**	**Description**	**OCULUS Document Link**
50141	Mangonia Park	6/16/2014	$1,057,030.00	Hill Avenue storm sewer replacement. The proposed project consists of constructing 1,767 linear feet of exfiltration trenches with a fixed weir control and 43 catch basins with 1 foot sumps. The project will serve a 43.3 acre drainage area located within the limits of the Town.	Project 50141 Documentation
9021	Crystal River	2/1/2013	$573,320.00	This project will extend the collection system to service area 114. These areas are currently on septic tanks and are in the vicinity of Kings Bay. Approximately 350 septic tanks will be eliminated by this project.	Project 09021 Documentation
27015	Hernando County	10/31/2014	$35,408,299.00	Expand Airport Sub-regional WWTP from 0.75 MGD to 1.25 MGD in order to provide the necessary capacity for the diversion of flow from the sub-regional facilities. The expansion plan includes a new headworks structure, two oxidation ditches using mechanical surface aeration, two new clarifiers, chlorine contact basin and new 2.0 MG reclaimed water storage tank and transmission main.	Project 27015 Documentation
4803E	Orange County	5/28/2015	$69,030,207.00	The proposed project consists of constructing the Phase V expansion of the Eastern Water Reclamation Facility. This is the last phase of work needed to expand the treatment capacity to 24.0 MGD. The improvements will include a new preliminary treatment structure, additional disk filters, an additional chlorine contact chamber, a new 5.0 MGD centrifuge dewatering facility and an expansion of the existing effluent pump station. The plant expansion is necessary to assure adequate treatment capacity in this area of the County's system.	Project 4803E Documentation
59013	Sanford	4/10/2014	$19,283,222.00	The proposed project consists of replacing the existing biological treatment system at the Sanford North Water Reclamation Facility and increasing the treatment capacity at the Sanford South Water Resource Center from 2.0 to 3.0 MGD. The City is currently permitted to make wet weather discharges to the St. Johns River. DEP Administrative Order No. 09-0002 requires the City to reduce nutrient loadings in order to comply with their new total maximum daily load waste load allocation. The BIODENIPHO process will be used to achieve these results.	Project 59013 Documentation
17033	Century	6/22/2012	$462,206.00	Improvements to the WWTP by installing a second tertiary filter. An additive alternate is included in the bid to construct a second headworks structure and static screen. This project is needed to provide the required redundancy.	Project 17033 Documentation
23020	Wewahitchka	5/30/2013	$2,114,411.00	The proposed project originally consisted of constructing a new wastewater treatment facility on the existing plant site. As a result of the economy, a redesign has been requested that involves rehab of the existing facility with no expansion. The project will promote compliance with Consent Order OGC File Number 09-0378-23-DW by improving the quality of the effluent that is discharged into the Chipola River, which is classified as a Class III Outstanding Florida Water.	Project 23020 Documentation
25020	Bowling Green	7/9/2015	$269,663.00	The proposed project consists of I/I Improvements. The I/I Improvements consists of sewer and manhole replacement/rehabilitation for the sanitary sewer system.	Project 25020 Documentation
35094	Tavares	7/13/2016	$5,656,672.00	This loan funded the Downtown Area A Storm Water Treatment Improvements project that converts an existing wetland area into a stormwater pond. Construction consists of 2,300 linear feet of 36-inch reinforced concrete pipe along Ruby Street, and two 30-inch control structures for discharge into Lake Dora.	Project 35094 Documentation

Project List					
Project Number	**Sponsor Name**	**Start Date**	**Loan Amount**	**Description**	**OCULUS Document Link**
61011	Branford	10/16/2017	$187,368.00	The proposed projects consists of constructing a new 300,000 gallon effluent storage tank on a grouted foundation. The work will also include a duplex transfer submersible pump station and a duplex spray field pump station. This work is needed due to the Town losing the existing wastewater effluent pond due to sinkholes. JW NOTE - No itemized lists for the costs	Project 61011 Documentation
14024	DeSoto County	1/12/2015	$2,371,756.00	Extend Wastewater service 5 miles along US 17 from 760A north to Heard Street to serve approximately 2116 connections and eliminate septic tanks which will greatly reduce the potential of groundwater contamination.	Project 14024 Documentation
8024	Charlotte County	2/26/2018	$28,874,005.00	WW080240 is a planning and design agreement for the construction of a new collection systems and reclaimed water improvements for Phase 2 Charlotte Harbor Water Quality Initiative for Ackerman-Countryman, US41, Chamberlain, and El Jobean. WW080241 is a construction agreement for the installation of a grand master lift station to handle the additional flows from the East and West Spring Lakes project and other expected Charlotte Harbor Initiative Projects.	Project 08024 Documentation
36020	Lee County	7/1/2016	$28,800,000.00	The proposed project includes modifications to the existing headworks and oxidation ditches, the addition of a 1.5 million gallon oxidation ditch, three new 85 foot diameter clarifiers, an additional belt press, a new administrative building, and a new electrical building. This project is necessary because the organic loading on the plant is higher than expected when the plant was constructed, and the plant cannot function properly at the permitted capacity of 6 million gallons per day (MGD). With the current configuration, the plant can properly function only at influent flows of 4 MGD or less. These improvements will enable the plant to meet the permit requirements at the originally permitted capacity.	Project 36020 Documentation
35144	Mount Dora	4/24/2017	$2,159,423.00	The proposed improvements consist of construction of approximately 9,400 linear feet (LF) of 12-inch reclaimed water main, and 16-inch and 8-inch wastewater force mains along State Route 46. The proposed utilities would connect to the City's existing utilities at Sebastian Street and terminate to the east of Round Lake Road in the heart of the Wolf Branch Innovation District. An additional 2,000 LF of 12-inch reclaimed water main, and 10-inch wastewater gravity sewer would be constructed within Florida Department of Transportation (FDOT) rights-of-way along Round Lake Road.	Project 35144 Documentation

Project List					
Project Number	**Sponsor Name**	**Start Date**	**Loan Amount**	**Description**	**OCULUS Document Link**
41036	Bradenton	1/2/2018	$4,941,300.00	6 proposed projects for improvements: 1) WWTF Dewatering Upgrade - replacement of the belt filter presses with new screw press dewatering equipment, new polymer blending systems, new cake pump sludge conveyance system and new control systems. A new truck canopy will also be installed to enable loading of sludge trailers on the exterior sludge handling facility. 2) Headworks improvements and Oxidation Ditch Splitter Box - A new oxidation ditch flow splitter box will be constructed between the Headworks and the oxidation ditches. 3) Oxidation Ditch Improvements (VFDs and DO Control) - VFDs, new motors and enhanced DO monitoring will be installed in order to more precisely and automatically control the nitrification/denitrification process within the ditches and new covers will be installed within the aeration zones. 4) Replacement of Permico FM (SR 64 Causeway) - Replacement of force main 5) Lift Station 31 Improvements - The lift station located adjacent to Lake Hospital will require 100% bypass due to the constructability of lining the existing wet well. 6) Lift Station No. 5 Improvements - The lift station adjacent to Manatee Memorial Hospital. The existing dry well will be converted into a new wet well and the lift station will require 100% bypass due to the constructability issues with replacing the lift station.	Project 41036 Documentation
40022	Greenville	2/1/2017	$171,959.84	Construction of a new Wastewater Treatment Plant (WWTP) to replace existing WWTP that is in a serious state of disrepair.	Project 40022 Documentation
13041	North Bay Village	5/12/2016	$4,852,590.00	Initial funding of $100,000 is a planning loan. The proposed project will rehabilitate the Village's wastewater collection system. The pipe rehabilitation will include pipe lining or point repairs, lateral repairs and joint grouting. The manhole rehabilitation will include lining or manhole replacement. The project will also include replacement of several wastewater pumps, control panels, and generator systems. The proposed work will improve the integrity of the system by rehabilitating aging and deteriorated collection facilities.	Project 13041 Documentation
60020	Wildwood	9/8/2016	$1,860,195.50	The proposed project consists of converting the CR 209 lift station to a master lift station and constructing approximately 16,000 feet of 12-inch force main from the CR 209 lift station to a 16-inch force main connecting to the wastewater treatment facility.	Project 60020 Documentation
41037	Bradenton	3/15/2017	$2,811,875.00	This project will replace the existing sludge belt presses with a screw press dewatering system. The existing dewatering system is obsolete and at the end of its useful life.	Project 41037 Documentation
36012	Cape Coral	10/16/2017	$45,000,000.00	This project will expand the city's existing collection system to approximately 3,000 homes in the North 2 service area. These homes are currently on septic tanks. Approximately 84 miles of gravity sewer, 20 miles of force main, 20 neighborhood lift stations and 2 master pump stations will be constructed through this project.	Project 36012 Documentation
35072	Umatilla	8/17/2015	$672,067.00	Reconstruction of existing roadway to provide storm water collection and treatment and replacement of exiting sewer and water lines. The objective of this project is to provide water quality treatment for the Orange Avenue Corridor and contributing areas and to relieve localized flooding. Reduction of pollutant loading of Lake Umatilla and subsequent downstream surface water of Lake Eustis will result in improved water quality and reduced stress on the ecosystem associated with these surface waters. Reduced flooding is an economic benefit to the City because it reduces flood related property losses.	Project 35072 Documentation

Project List					
Project Number	**Sponsor Name**	**Start Date**	**Loan Amount**	**Description**	**OCULUS Document Link**
6130	Davie	4/9/2012	$4,493,615.00	This project will correct excessive inflow and infiltration (I&I), repair lift stations, install telemetry, and construct a force main associated with lift station number 8. The proposed I&I project will reduce pumping and treatment cost due to the excessive I&I. The lift station rehabilitation and telemetry and network analysis helps the operation go smoothly and the data be tracked correctly.	Project 06130 Documentation
48041	Orlando	12/5/2012	$4,718,039.00	This project consisted of the Bruton Boulevard Sewer Improvements, rehab of Lift Stations 65 & 78, Conserve II reclaimed pump replacement and aerator replacement at the Iron Bridge plant. The sewer improvements reduced infiltration and inflow and preventing sanitary sewer overflows. The lift stations, Conserve II reclaimed pumps and the Iron Bridge aerators were all beyond their useful life and needed to be upgraded or replaced in order to maintain system reliability.	Project 48041 Documentation
88202	Islamorada	9/28/2012	$83,343,090.00	This project is for the construction of a regional wastewater collection and transmission system for the Village of Islamorada, which is primarily served by septic tanks and package wastewater plants. The wastewater collected by this system will be pumped to the Key Largo Advanced Wastewater Treatment Facility where it will be treated, and the effluent pumped into a deep injection well. Currently, nutrients from the existing wastewater systems are causing elevated nutrient levels in the near shore waters of the Keys which may be contributing to the deterioration of the coral reef. The anticipated outcome of this project and others in the area is a reduction in the nutrient loading which will hopefully slow the degradation of the reef. Approximately 6,765 EDUs will be treated by this system. This project is necessary to meet the requirements of Chapter 403.086 paragraph 10 FS.	Project 88202 Documentation
20010	Quincy	7/1/2013	$480,291.00	Construction of biosolids dewatering facility at the WWTP for disposal of residuals at landfill. The project is necessary to comply with DEP rules.	Project 20010 Documentation
34002	Newberry	8/6/2012	$2,539,208.00	The proposed project consists of expanding the existing 0.349 million gallons per day (MGD) Water Reclamation Facility (WRF) capacity by 0.21 MGD, annual average daily flow (AADF) and expanding the existing combined spray field and residuals land application site by 38 acres.	Project 34002 Documentation
"06045"	Hollywood	9/30/2013	$6,239,379.00	The proposed project consists of rehabilitation and replacement of the headworks system for the City of Hollywood's Southern Regional Wastewater Treatment Plant. This rehabilitation/replacement project includes the replacement of the existing 3/8" mechanical bar screens with new 1/4" mechanical bar screens and washer/compactors. The concrete in the bar screen chambers, grit chambers, grit chamber distribution boxes and effluent/influent channels will be repaired and coated with new protection epoxy system. Six sluice gates will be replaced new equipment and all of the operators servicing the existing gates will be replaced. Effluent weirs will be replaced in all grit chambers and the odor control system will be retrofitted with the replacement of all dampers. There will be some architectural improvements including new roll up doors, new exit doors, painting, new skylights and new roof.	Project 06045 Documentation

Project List					
Project Number	**Sponsor Name**	**Start Date**	**Loan Amount**	**Description**	**OCULUS Document Link**
44071	Monroe County	1/24/2013	$120,000,000.00	The project consists of constructing a wastewater treatment plant, transmission main and wastewater collection system to serve the communities from Lower Sugarloaf Key (MM17) to, but not including, No Name Key (MM31). The treatment plant will be located on Cudjoe key. The plant will have design capacity of 0.94 MGD and will meet Advanced Wastewater Treatment Standards (AWT). The treatment process will include an influent screening facility, biological treatment consisting of 5-Stage Bardenpho treatment basins, clarifiers, disinfection and a biosolids handling facility. The transmission and collection system will serve approximately 9,059 equivalent dwelling units (EDUs).	Project 44071 Documentation
5050	Cape Canaveral	5/11/2015	$5,164,812.00	Construction of a reclaimed water storage tank and rehab of the existing sludge belt press. Also included are stormwater improvements that include pipe rehabilitation, streetscaping, ditch dredging, as well as the installation of new reinforced concrete pipe.	Project 05050 Documentation
13024	Miami-Dade County	11/17/2014	$21,876,676.00	The proposed project consists of constructing a deep injection well system at the Central District Wastewater Treatment Plant. The County plans to remove the waste streams from the centrate and the gas scrubbers of the treatment processes and inject this industrial waste into deep wells instead of sending it to the head of the plant. The facilities will include two deep injection wells, a dual-zone monitoring well, and the surface facilities needed to pump the waste streams into the injection wells. An estimated annual average of 6.3 million pounds of total nitrogen and 0.3 million pounds of total phosphorus will be removed from the existing ocean discharge. This will enable the County to comply with the interim requirements of the ocean outfall legislation.	Project 13024 Documentation
48020	Eatonville	11/1/2015	$1,839,979.00	The project includes replacement of approximately 9,000 feet of gravity sewer lines, 138 service laterals, 40 manholes and replacement or rehabilitation of 2 existing lift stations. The work will correct back-up, capacity and flow problems.	Project 48020 Documentation
28050	Spring Lake Improvement District	6/10/2015	$1,938,444.00	SLID has experienced severe flooding issues for many years due to the age of the surface water system components. Spring Lake's stormwater feeds into Arbuckle Creek, a tributary of Lake Istokpoga, which is transported to Lake Okeechobee. Eventually this water ends up in the Everglades and Florida's sensitive Atlantic estuaries. Additionally, the SLID is currently not in compliance with the original surface water permit conditions, therefore corrective action is necessary. The proposed stormwater improvements project include storm water conveyance and treatment to remove silt as well as other improvements. The existing culverts and the master pump station will be replaced, and lake storage capacity expanded (additional land for treatment capacity).	Project 28050 Documentation
17043	Walton/Okaloosa/Santa Rosa Regional Utility Authority	1/22/2018	$1,398,400.00	This project will replace the existing sand filters with disk filters. The current filtration system is old and deteriorated and not capable of treating the entire flow when the plant is running at capacity.	Project 17043 Documentation

Project List					
Project Number	**Sponsor Name**	**Start Date**	**Loan Amount**	**Description**	**OCULUS Document Link**
5110	Brevard County	8/22/2016	$40,972,625.00	The proposed project consists of the expansion and upgrade of the existing wastewater treatment facilities at the County's South Central Regional Wastewater Treatment Facility. These improvements include the following elements: A new pretreatment/headworks structure and new aerators that will increase the capacity of the existing plant from 5.5 to 6 MGD, a new 3.0 MGD integrated fixed film activated sludge biological treatment unit, two new secondary clarifiers; three Disc filters and retrofit of four Dynasand filters with new Disc filters, a new chlorine contact chamber and transfer structure; a new 1.0 million gallon reuse storage tank with a high service pump station, expansion of the existing sludge handling building and a new belt filter press, and a new 12,000 square foot maintenance facility.	Project 05110 Documentation
58023	Sarasota	1/2/2018	$27,840,000.00	The proposed project involves improvements to both the City's water and wastewater system and consists of the construction of Lift Station 87 and the replacement of gravity sewer and reclaimed water mains at the intersection of Osprey Avenue and Lincoln Drive. Additionally, the project will consist of the replacement of approximately 4,000 linear feet of gravity sewer and reclaimed water main; decommissioning and removal of Lift Station 7 including appropriate restoration; decommissioning and removal of Lift Station 71 including appropriate restoration; road restoration; and, other related activities.	Project 58023 Documentation
36040	Gateway Services Community Development District	3/23/2017	$4,163,925.00	The proposed project consists of the remediation of lake banks throughout the Gateway Services Community Development District (GSCDD) by the installation of an Anchored Reinforced Vegetation System (ARVS), such as Armormax, where severe erosion is a continuous problem. Also, in areas where erosion is less severe, the GSCDD plans to utilize alternative repairs such as regrading lake banks with imported fill, installing drains that direct water away from the slope, and other minor repairs. The erosion of the lake banks has caused the lakes to encroach into the adjacent residential properties and in some cases, created ledges. The proposed project will restore 13 lake banks to the original design with a goal to reach a 6:1 slope and provide protection from future erosion.	Project 36040 Documentation
10020	Clay County Utility Authority	7/17/2017	$14,179,180.00	Phase one of the proposed project will include the construction of the following new treatment train components: 3.0 million gallon per day (MGD) influent structure with flow splitting chamber, one single 1.5 MGD two-stage denitrification oxidation ditch, secondary clarifiers, traveling bridge sand filters, chlorine contact chambers, an effluent transfer pumping station, and a new BCR Neutralizer residuals processing facility. Phase one will also include all earthwork, yard piping, and electrical upgrades required for the ultimate 3.0 MGD facilities.	Project 10020 Documentation
77006	Mulberry	3/23/2018	$4,888,186.00	This project is for major sewer rehabilitation and I/I correction. The sponsor submitted a planning loan application on 10/1/14 to conduct a SSES and generate a new facility plan. Facilities plan approved 7/19/16. Plans & Specs for Phase 1 and 2 submitted 7/11/17. Construction funding is currently only for Phase 1.	Project 77006 Documentation
53162	Lake Hamilton	4/4/2017	$290,302.00	Construction of a new low-pressure grinder pump sewer system to serve commercial customers and eliminate septic tank systems along U.S. 27. Also, a master pump station and force main to transmit wastewater to the Dundee WWTP.	Project 53162 Documentation

Project List					
Project Number	**Sponsor Name**	**Start Date**	**Loan Amount**	**Description**	**OCULUS Document Link**
64183	Deltona	6/26/2017	$7,355,066.00	The Lake Monroe portion of the project includes a surface water intake/pump station on Lake Monroe, a 24-inch transmission main from Lake Monroe to the Alexander Avenue Water Management Site (WMS), covered storage for raw surface water and stormwater, and treatment consisting of coagulation, flocculation, filtration, and disinfection, as well as finished water storage. The proposed project will be constructed in two segments: Project 4A will include raw water storage, treatment, and pumping facilities for 4.0 million gallon per day annual average daily flow of stormwater pumped to the Alexander Avenue WMS from the Tivoli Wheeling and Leland Drive stormwater pump stations. Project 4B will include infrastructure needed to withdraw and pump surface water from Lake Monroe to the Alexander Avenue WMS for treatment in the facilities constructed as part of Project 4A.	Project 64183 Documentation
3026	Lynn Haven	3/29/2018	$6,600,000.00	The proposed project will investigate the condition of the oldest sections of the City's gravity wastewater collection system and will then perform the rehabilitation or replacement of the most critically deficient pipes and manholes. This work is needed to reduce inflow and infiltration into the City's system and to improve the integrity of these facilities	Project 03026 Documentation
59051	Longwood	12/11/2017	$2,622,050.00	The proposed project will expand the City's wastewater collection system in the South Longwood, Lake Ruth and Springwood areas and will eliminate approximately 120 septic tanks. This project will help prevent pollutants from entering nearby surface water bodies.	Project 59051 Documentation
52020	Gulfport	12/4/2017	$4,018,655.00	SSES & Inflow Correction: The City's wastewater collection system is over 50 years old and is suffering from excessive infiltration and inflow (I&I) problems and sewer system overflow (SSO). The City is going to perform a full Sanitary Sewer Evaluation Study (SSES) to identify and correct sources of excessive I&I in order to eliminate the chance of a raw sewage overflow. The elimination of excessive I&I will reduce the potential for overflows and inadequate treatment, protecting public health and surface waters.	Project 52020 Documentation
17042	Walton/Okaloosa/Santa Rosa Regional Utility Authority	11/27/2017	$1,106,793.00	The WRF improvements include upsizing the undersized effluent piping between the high-level chlorine contact chamber and effluent pump station; updating the antiquated electrical equipment, control panels, and motor control centers in the Cube Building for the operators to be able to provide better control of the WRF; and upgrading the existing traveling bridge sand filters to newer technology allowing a larger capacity in a smaller foot-print. These improvements are needed for proper operation of the reclaimed water reuse system and increased capacity to serve the customer’s needs. This project also will help the plant to reject total permitted flows when needed, as required.	Project 17042 Documentation
13200	Miami	4/16/2017	$22,413,800.00	Dredging Wagner Creek and Seybold Canal to remove contaminated sediments and reestablish historic water depths to improve drainage and navigation.	Project 13200 Documentation

Project List					
Project Number	**Sponsor Name**	**Start Date**	**Loan Amount**	**Description**	**OCULUS Document Link**
85805	Clay County Utility Authority	2/23/2015	$1,735,142.00	Planning and design loan for the Mid-Clay County Reclaimed Water Storage Reservoir & Fleming Island WWTF Upgrades. The Mid-Clay Reclaimed Water Reservoir will allow CCUA to store reclaimed water during wet weather periods or when reclaimed water demands are low, to be utilized later during high demand periods, thereby decreasing the need to pump its augmentation wells and decrease its wet-weather surface water discharge. This reservoir may also be a key component of a future regional aquifer recharge project, providing storage and a location for blending source water. The Fleming Island WWTF Upgrades will upgrade the effluent transfer pumps and yard piping which are under capacity, install yard piping, valves and fittings to allow excess reclaimed water produced that is currently discharged to the Lower St. Johns River to be re-routed to the Mid-Clay reclaimed reservoir, and improve the mixing and aeration controls for the biological treatment units.	Project 85805 Documentation
30013	Bonifay	11/20/2015	$1,315,932.00	Upgrade to the existing wastewater treatment facility required to comply with the terms of a consent order resulting from effluent violations.	Project 30013 Documentation
58031	Sarasota County	3/17/2015	$16,242,200.00	The project includes the construction of approximately 90,000 LF of PVC vacuum mains ranging in diameter from 3-inch to 10-inch, approximately 34,000 LF of 4-inch and 6-inch gravity laterals, 580 vacuum valve pits, and 8 buffer tanks. Also included is the construction of fully contained masonry building housing the vacuum/sewerage pumping assemblies, and approximately 45,000 LF of water mains. 1,185 septic tanks will be eliminated upon completion of this project.	Project 58031 Documentation
13070	Medley	6/20/2012	$2,944,402.00	Construction of drainage improvements along the Town's Flood Mitigation project area along with necessary paving. This work is necessary to mitigate the severe ongoing urban flooding and standing water problems while improving storm water pre-treatment and final treatment within the project area. Additionally, the drainage improvements will also help reduce inflow and infiltration into sanitary sewer lines, greatly diminishing sanitary sewer overflows.	Project 13070 Documentation
64052	Edgewater	11/12/2012	$6,201,142.00	The existing 2.75 MGD WWTP is an advanced wastewater treatment facility. The plant was constructed in 1991 (now 20 years old) and has exceeded its useful life. The plant equipment needs upgrading and/or replacement at this time. This project is needed to maintain existing plant operations and to ensure WWTF compliance and reliability.	Project 64052 Documentation
59439	Hollywood	11/14/2013	$2,509,295.00	Installation of CIPP lining on 48" and 60" gravity mains on Taft Street.	Project 59439 Documentation

Wastewater Treatment Process Costs

Wastewater Treatment Process Costs				
Project Number	**Project Description**	**Cost Estimates**	**Unit**	**OCULUS Document Link**
36020	Clarifier	$519, 434	EA	Project 36020 Documentation
36020	submersible solids handling pumps	$61, 251	EA	See above
36020	horizontal WW chopper pumps	$181,400.00	EA	See above
36020	progressive cavity pump	$41,400.00	EA	See above
36020	double disc scum pumps	$61,300.00	EA	See above
36020	belt filter press	$549,779.00	EA	See above
36020	oxidation ditch - brush aerators	$180,042.00	EA	See above
35144	8" PVC Piping	$30.00	LF	Project 35144 Documentation
35144	12" PVC Piping	$35.00	LF	See above
35144	16" PVC Piping	$50.00	LF	See above
35144	WW Force Main and Reclaimed Water Main	$639,600.00	EA	See above
35144	Potable Water Main	$374,80	EA	See above
58031	The project includes the construction of approximately 90,000 LF of PVC vacuum mains ranging in diameter from 3-inch to 10-inch, approximately 34,000 LF of 4-inch and 6-inch gravity laterals, 580 vacuum valve pits, and 8 buffer tanks. Also included is the construction of fully contained masonry building housing the vacuum/sewerage pumping assemblies, and approximately 45,000 LF of water mains. 1,185 septic tanks will be eliminated upon completion of this project.			Project 58031 Documentation
58031	Vacuum Collection system	$760,500		see above
58031	Generator	$120,000		see above
58031	Water Main	$3,545,820		see above
58031	Force Main	$1,470,650		see above
52021	Remove and Replace Guard Rail FDOT Std Index 400	$42.00	LF	Project 52021 Documentation
52021	Pipe Handrail Steel	$80.00	LF	see above
52063	Consolidate and update Biosolids handling and dewatering from WAS to natural gas fueled engine generators. Install natural gas fueled generators to offset plant electrical demands and create biogas. Installation of two primary clarifiers and odor control systems. The City's four Water Reclamation Facilities produce approximately 36,000 tons per year of biosolids and 1,800 cubic yards of screening material amounting to 35,000 tons of yard waste per year.			Project 52063 Documentation
52063	Site work & Utilities for General electric upgrades	$429,000.00	EA	see above
52063	Site work & Utilities for (primary clarifiers, odor control system, WAS Natural gas fueled engineers Temperature-phased anaerobic digestion)	$3,310,000.00	EA	see above
52063	Concrete for General Electrical Improvements	$606,000.00	EA	see above
52063	Concrete for Biosolids to Energy	$11,195,000	EA	see above
52063	SCADA Integration (Programing) electrical	$441,350.00	EA	see above
52063	SCADA Integration (Programing) Biosolids to Energy	$3,897,156.00	EA	see above
52063	Biogas Upgrade System	$2,798,678.00	EA	see above
52063	Digester Gas Storage Tank	$1,006,364.00	EA	see above

Wastewater Treatment Process Costs				
Project Number	**Project Description**	**Cost Estimates**	**Unit**	**OCULUS Document Link**
64180	The Eastern WFR was constructed to treat 1.5 MGD but, it has only three MBR units to do initial treatment capacity of 1.0 MGD. The facility upgrade will include headworks screening and grit removal, four stage biological nutrient removal using membrane technology, disinfection, effluent and reclaimed water storage and pumping, biosolids treatment, operations building, clearing for stormwater drainage piping, roadways, and landscaping fencing.			Project 64180 Documentation
64180	Sitework including: clearing, erosion and sediment control, earthwork, stormwater conveyance, stormwater ponds, perimeter road, driveways, sidewalk fencing, gates, grassing and landscaping.	$600,000.00	EA	see above
64180	Sitework including: clearing, erosion and sediment control, earthwork, stormwater conveyance, stormwater ponds, perimeter road, driveways, sidewalk fencing, gates, grassing and landscaping.	$1,086,000.00	EA	see above
64180	Sitework including: clearing, erosion and sediment control, earthwork, stormwater conveyance, stormwater ponds, perimeter road, driveways, sidewalk fencing, gates, grassing and landscaping.	$925,000.00	EA	see above
64180	Sitework including: clearing, erosion and sediment control, earthwork, stormwater conveyance, stormwater ponds, perimeter road, driveways, sidewalk fencing, gates, grassing and landscaping.	$468,000.00	EA	see above
64180	Sitework including: clearing, erosion and sediment control, earthwork, stormwater conveyance, stormwater ponds, perimeter road, driveways, sidewalk fencing, gates, grassing and landscaping.	$900,000.00	EA	see above
64180	Sitework including: clearing, erosion and sediment control, earthwork, stormwater conveyance, stormwater ponds, perimeter road, driveways, sidewalk fencing, gates, grassing and landscaping.	$543,000.00	EA	see above
64180	Headworks Upgrade including: screening and grit removal related work including structures, screens piping, weir gates, grit chambers, classifier, pumps, valves, foundations, etc.	$2,250,000.00	EA	see above
64180	Headworks Upgrade including: screening and grit removal related work including structures, screens piping, weir gates, grit chambers, classifier, pumps, valves, foundations, etc.	$1,887,000.00	EA	see above
64180	Headworks Upgrade including: screening and grit removal related work including structures, screens piping, weir gates, grit chambers, classifier, pumps, valves, foundations, etc.	$1,900,000.00	EA	see above
64180	Headworks Upgrade including: screening and grit removal related work including structures, screens piping, weir gates, grit chambers, classifier, pumps, valves, foundations, etc.	$1,872,650.00	EA	see above
64180	Headworks Upgrade including: screening and grit removal related work including structures, screens piping, weir gates, grit chambers, classifier, pumps, valves, foundations, etc.	$2,000,000.00	EA	see above

Wastewater Treatment Process Costs				
Project Number	**Project Description**	**Cost Estimates**	**Unit**	**OCULUS Document Link**
64180	Headworks Upgrade including: screening and grit removal related work including structures, screens piping, weir gates, grit chambers, classifier, pumps, valves, foundations, etc.	$1,754,107.00	EA	see above
64180	BNR/MBR Process including: membrane bioreactor system including all equipment, piping, appurtenances, spare parts, startup services, taxes, and manufacturer's labor.	$3,295,000.00	EA	see above
64180	BNR/MBR Process including: membrane bioreactor system including all equipment, piping, appurtenances, spare parts, startup services, taxes, and manufacturer's labor.	$3,970,000.00	EA	see above
64180	BNR/MBR Process including: membrane bioreactor system including all equipment, piping, appurtenances, spare parts, startup services, taxes, and manufacturer's labor.	$3,300,000.00	EA	see above
64180	BNR/MBR Process including: membrane bioreactor system including all equipment, piping, appurtenances, spare parts, startup services, taxes, and manufacturer's labor.	$3,532,720.00	EA	see above
64180	BNR/MBR Process including: membrane bioreactor system including all equipment, piping, appurtenances, spare parts, startup services, taxes, and manufacturer's labor.	$2,036,000.00	EA	see above
64180	BNR/MBR Process including: membrane bioreactor system including all equipment, piping, appurtenances, spare parts, startup services, taxes, and manufacturer's labor.	$3,975,000.00	EA	see above
64180	BNR/MBR Process including: BNR basin, chemical feed systems, and installation of membrane bioreactor system equipment.	$2,338,680.00	EA	see above
64180	BNR/MBR Process including: BNR basin, chemical feed systems, and installation of membrane bioreactor system equipment.	$3,194,000.00	EA	see above
64180	BNR/MBR Process including: BNR basin, chemical feed systems, and installation of membrane bioreactor system equipment.	$3,701,915.00	EA	see above
64180	BNR/MBR Process including: BNR basin, chemical feed systems, and installation of membrane bioreactor system equipment.	$2,673,800.00	EA	see above
64180	BNR/MBR Process including: BNR basin, chemical feed systems, and installation of membrane bioreactor system equipment.	$1,700,000.00	EA	see above
64180	BNR/MBR Process including: BNR basin, chemical feed systems, and installation of membrane bioreactor system equipment.	$2,491,000.00	EA	see above
64180	Biosolids Handling including: chemical neutralization system furnished and installed including all equipment, building, piping appurtenances, spare parts, startup services, and manufacturer's labor.	$4,126,000.00	EA	see above
64180	Biosolids Handling including: biosolids receiving station including structure, valves, pumps, piping, fittings, appurtenances, control panel, etc.	$15,000.00	EA	see above
64180	Biosolids Handling including: biosolids receiving station including structure, valves, pumps, piping, fittings, appurtenances, control panel, etc.	$120,000.00	EA	see above

Wastewater Treatment Process Costs				
Project Number	**Project Description**	**Cost Estimates**	**Unit**	**OCULUS Document Link**
64180	Biosolids Handling including: biosolids receiving station including structure, valves, pumps, piping, fittings, appurtenances, control panel, etc.	$150,000.00	EA	see above
64180	Biosolids Handling including: biosolids receiving station including structure, valves, pumps, piping, fittings, appurtenances, control panel, etc.	$167,000.00	EA	see above
64180	Biosolids Handling including: biosolids receiving station including structure, valves, pumps, piping, fittings, appurtenances, control panel, etc.	$100,000.00	EA	see above
64180	Biosolids Handling including: biosolids receiving station including structure, valves, pumps, piping, fittings, appurtenances, control panel, etc.	$76,000.00	EA	see above
64180	Biosolids Handling including: biosolids holding tank, positive displacement blowers, diffused aeration system, sludge pumps including all material, equipment, pipe connections, controls, electrical, and miscellaneous appurtenances	$450,000.00	EA	see above
64180	Biosolids Handling including: biosolids holding tank, positive displacement blowers, diffused aeration system, sludge pumps including all material, equipment, pipe connections, controls, electrical, and miscellaneous appurtenances	$555,000.00	EA	see above
64180	Biosolids Handling including: biosolids holding tank, positive displacement blowers, diffused aeration system, sludge pumps including all material, equipment, pipe connections, controls, electrical, and miscellaneous appurtenances	$400,000.00	EA	see above
64180	Biosolids Handling including: biosolids holding tank, positive displacement blowers, diffused aeration system, sludge pumps including all material, equipment, pipe connections, controls, electrical, and miscellaneous appurtenances	$764,800.00	EA	see above
64180	Biosolids Handling including: biosolids holding tank, positive displacement blowers, diffused aeration system, sludge pumps including all material, equipment, pipe connections, controls, electrical, and miscellaneous appurtenances	$270,000.00	EA	see above
64180	Biosolids Handling including: biosolids holding tank, positive displacement blowers, diffused aeration system, sludge pumps including all material, equipment, pipe connections, controls, electrical, and miscellaneous appurtenances	$487,000.00	EA	see above
64180	Process chemicals (allowance)	$50,000.00	EA	see above

Wastewater Treatment Process Costs				
Project Number	**Project Description**	**Cost Estimates**	**Unit**	**OCULUS Document Link**
52021	The proposed projects include the following as a result of the Consent Order Corrective Actions. Improvements to the collection system and construction of a wet weather monitoring and pumping system to mitigate sanitary sewer overflows. Replacement of the facility's disinfection system to reduce gaseous chlorine and disinfection by-products. Replacement of the Wastewater Reclamation Facility's (WWRF) effluent, influent and pumping system and headworks improvements. Improvements to the WWRF treatment processes. Improvement of the WWRF biosolids drying facility. Reconstruction and rehabilitation of the WWRF operations, laboratory centers and mechanic's warehouse.			Project 52021 Documentation
52021	Gravity Odor Control System	$147,000.00	LS	see above
52021	Influent Pump Station	$2,000,000.00	EA	see above
52021	Headworks	$5,000,000.00	EA	see above
52021	EQ Tank	$1,500,000.00	EA	see above
44071	The project consists of constructing a wastewater treatment plant, transmission main and, wastewater collection system to serve the communities from Lower Sugarloaf Key (MM17) to, but not including, No Name Key (MM31). The treatment plant will be located on Cudjoe key. The plant will have design capacity of 0.94 MGD and will meet Advanced Wastewater Treatment Standards (AWT). The treatment process will include an influent screening facility, biological treatment consisting of 5-Stage Bardenpho treatment basins, clarifiers, disinfection and, a biosolids handling facility. The transmission and collection system will serve approximately 9,059 equivalent dwelling units (EDUs).			Project 44071 Documentation
44071	Dewatering for all construction work.	$175,000.00	EA	see above
44071	Shallow Injection Well Installation and abandonment.	$21,000.00	EA	see above
44071	Mobilization All Equipment to Complete Drilling and testing Activities for One Dual-Zone Monitoring Well (Not to exceed 10% of total sum).	$141,000.00	EA	see above
44071	Install four surficial aquifer monitoring wells (2" dia PVC) and provide sampling and analysis for duration of project.	$16,000.00	EA	see above
44071	Provide sampling and analysis of surficial monitoring wells for duration of project.	$25,000.00	EA	see above
44071	Provide all Water Quality Sampling and analysis for Dual-Zone monitoring Well Construction in accordance with Specification Sections 33 21 13.03, 33 21 13.09, 33 21 13.16, and 33 24 0.	$18,000.00	EA	see above
64183	Grout Fill for void under 3MG Storage tank.	$350.00	CY	see above
53132	Wastewater Treatment Plant #3 Bar Screen Addition.	Lacking enough details to gain beneficial cost estimates.		Project 53132 Documentation

Wastewater Treatment Process Costs				
Project Number	**Project Description**	**Cost Estimates**	**Unit**	**OCULUS Document Link**
44011	This project consists of demolition of the existing fine screening system and support structure, removal of the three existing centrifugal blowers from service, and construction of improvements to the existing 0.34 MGD membrane bioreactor (MBR) water reclamation facility (WRF). It also includes but is not limited to, one 10 ft static screen with 2 mm screening unit, one emergency backup aluminum bar rack with 1/4" screenings, one GMP dry-pit/wet-pit submersible motive pumps, two 200 scum PD Blowers for SAM jet mixing system, four 500 scum PD Blowers for MBR Scour and aeration needs within existing Biological Treatment Unit (BTU), two 100 GPM wasting pumps from aeration basin to digester, removal and replacement of existing aerobic digester modifications from diffused air to 15 Hp floating aspirator, and associated electrical and instrumentation improvements.	$4,984,777.00	Missing individual cost breakdown but detailed overall project with lump sum total.	Project 44011 Documentation
59015	Class A biosolids management system.	Lacking enough details to gain beneficial cost estimates.		Project 59015 Documentation
6043	Deep Injection Well for Membrane Softening/ Reverse Osmosis Concentrate Disposal	$5,393,393	Total	Project 06043 Documentation
6043	Drill 62" diameter borehole (0'-300' bpl)	$100.00	FT	see above
6043	Drill 12" pilot holes (300'-100', 1000'-2000', 2000'-3500' bpl)	$85.00	FT	see above
6043	Ream nominal 54" Borehole (300'-975' bpl)	$100.00	FT	see above
6043	Ream nominal 44" Borehole (975'-2000' bpl)	$90.00	FT	see above
6043	Ream nominal 36" Borehole (2000'-2900' bpl)	$70.00	FT	see above
6043	Ream nominal 24" Borehole (2900'-3500' bpl)	$50.00	FT	see above
6043	Furnish and Install 54" (0.375" wall) Conductor casing to 300' bpl	$220.00	FT	see above
6043	Furnish and Install 44" (0.375" wall) Conductor casing to 975' bpl	$150.00	FT	see above
6043	Furnish and Install 36" (0.375" wall) Conductor casing to 2000' bpl	$120.00	FT	see above
6043	Furnish and Install 26" (0.375" wall) Conductor casing to 2900' bpl	$130.00	FT	see above
6043	Install 17.98" I.D. FRP Injection tubing to 2890' bpl on an External Casing Packer of Mechanically-set positive seal packer	$240.00	FT	see above
6043	Conduct straddle-packer pumping tests in pilot holes below 44" casing	$10,000.00	EA	see above

Wastewater Treatment Process Costs				
Project Number	**Project Description**	**Cost Estimates**	**Unit**	**OCULUS Document Link**
43212	Crestview WWTP Phase 4 upgrades and rapid-rate infiltration basins includes, miscellaneous improvements to the existing grit removal system structure and associated equipment. The project also involves modifications to existing master lift station, including relocation of electrical panel. The chlorinated contact basin, including rapid-rate infiltration basin pump station, internal recycle pump station and hydropneumatics tank, hypochlorite pump building; tertiary treatment system, including new tertiary filter pump station, new tertiary filter will al receive upgrades. There will be modifications to the existing aerobic digester, a new electrical building, a new plant drain pump station, a new rapid-rate infiltration basins, including force main and splitter box. Also, demolition, site work, site electrical, instrumentation and control, and miscellaneous structures associated with the above facility.	$6,647,787.00	Missing individual cost breakdown but detailed overall project with lump sum total.	Project 43212 Documentation

Wastewater Treatment Process Costs				
Project Number	**Project Description**	**Cost Estimates**	**Unit**	**OCULUS Document Link**
18042	Construction of 2.5 MGD advanced WWTP (AWT) using the Membrane Bioreactor (MBR) technology. The process includes pre-treatment, flow equalization basins and, 2 anaerobic zone basins. The Basins type are submersible with a capacity of 43644 gallons, a mixer support that is rail mounted and, a Level measurement type float. The project also includes, pre-anoxic basins that are type submersible, with a capacity of 85277 gallons, a mixer support that is rail mounted and, the level measurement type is a float. Aeration basins are also included with a MBR blower (2 duty), its type is positive displacement with a capacity 1520 SCFM. It has MBR noise suppression sound enclosure, MBR temperature gauge and, switch that are with the blower. The MBR Blower Flow control valve and pressure release valves are check valves and also located with the blower. The MBR pressure transmitter type is a diaphragm with the capacity of -15-+15 PSI, with a 12-inch butterfly MBR air isolation valve and a modulated 12 inch butterfly MBR blower flow control automated valve. The post anoxic basins have a submersible mixer type with a capacity of 60754 gallons and mixer support hardware and guardrail that is rail mounted with a level switch type float. The MBR basins are flat sheet Ovivo membrane units with a 1.5 inch solenoid diffuser CIP automated valve, a 2.5 inch butterfly diffuser inlet isolation valve, a 4.00 permeate branch isolation value, a float level measurement level switch, a 23 for hydrostatic level transmitter, a 3 inch ball chemical cleaning isolation valve, a 3 inch ball CIP vent valve type and, a 10 inch butterfly permeate header Isolation valve. The construction also includes disinfection basins, reclaimed water storage and pumping, and sludge dewatering facilities and, RAS Recycling. The RAS recycling includes a centrifugal 2604 GMP RAS traditional recycle (MBR to pre-aeration), a 10 inch bulb for vibration isolation, a 10 inch plug for pump isolation, a 10 inch swing check flow direction valve, a compound pump inlet pressure gauge with the capacity of -30-+15Inch Hg/PSI, a pump outlet pressure gauge with the capacity of 0-15 PSI, a 14 inch electromagnetic traditional recycle flowmeter, a 3 inch plug for WAS isolation automated , a 3 inch electromagnetic WAS transfer flow meter and, a 10 inch plug for MBR basin isolation.	$25,108,000	LS	Project 18042 Documentation
	MBR basins are flat sheet Ovivo membrane units with 1.5 inch solenoid diffuser CIP automated valve, a 2.5 inch butterfly diffuser inlet isolation valve, a permeate branch isolation value type ball size 4.00, a float level switch, a 23 foot hydrostatic level transmitter, a 3 inch ball chemical cleaning isolation valve, a 3 inch ball CIP vent valve and, a 10 inch butterfly permeate Header Isolation valve.	$3,032,365.00	LS	see above
55012	The construction of the 2.4 MGD Players Club Water Reclamation Facility project. The scope of work includes but is not limited to all new processes, equipment, buildings, pipelines and appurtenances, site work, paving, grading, drainage, demolition of the existing WWTP, testing, allowances and permitting.	Lacking enough details to gain beneficial cost estimates.		Project 55012 Documentation

Wastewater Treatment Process Costs				
Project Number	**Project Description**	**Cost Estimates**	**Unit**	**OCULUS Document Link**
32031	Cottondale WWTP Improvements Phase II includes rehab of 3 lift stations and, treatment plant with furnishing, installing blowers and, chlorination equipment.			Project 32031 Documentation
32031	Unit #2 improvements include removing and replace diffusers, installing five drop pipes with 22 diffusers each for a total of 110 and, repairing pipe as necessary.	$8,925.00		see above
32031	Unit #2 improvements include removing and replace diffusers, installing five drop pipes with 22 diffusers each for a total of 110 and, repairing pipe as necessary.	$20,646.00		see above
32031	Unit #2 improvements include removing and replace diffusers, installing five drop pipes with 22 diffusers each for a total of 110 and, repairing pipe as necessary.	$7,296.00		see above
32031	Unit #2 improvements include removing and replace diffusers, installing five drop pipes with 22 diffusers each for a total of 110 and, repairing pipe as necessary.	$13,582.00		see above
32031	Unit #2 improvements include removing and replace diffusers, installing five drop pipes with 22 diffusers each for a total of 110 and, repairing pipe as necessary.	$13,400.00		see above
32031	Unit #2 improvements include removing and replace diffusers, installing five drop pipes with 22 diffusers each for a total of 110 and, repairing pipe as necessary.	$32,940.00		see above
32031	Unit #2 improvements include removing and replace diffusers, installing five drop pipes with 22 diffusers each for a total of 110 and, repairing pipe as necessary.	$13,279.00		see above
8022	East/West Spring WW Expansion	Lacking enough details to gain beneficial cost estimates.		Project 08022 Documentation
25023	WWTF Headworks Improvements	Lacking enough details to gain beneficial cost estimates.		Project 25023 Documentation
57001	Treatment Facility Upgrades	Lacking enough details to gain beneficial cost estimates.		Project 57001 Documentation
59032	Construction of a 0.50 MG reclaimed water storage tank, pumping facilities, and rehabilitation and repurpose of an existing pumping station to an emergency reject wastewater pump station.			Project 59032 Documentation
59032	Furnish and Install 500000 Gallon Prestressed Concrete GST	$643,877.00	LS	See Above
59032	Furnish and Install 500000 Gallon Prestressed Concrete GST	$700,000.00	LS	See Above

Wastewater Treatment Process Costs				
Project Number	**Project Description**	**Cost Estimates**	**Unit**	**OCULUS Document Link**
59032	Furnish and Install 500000 Gallon Prestressed Concrete GST	$570,000.00	LS	See Above
59032	Furnish and Install 500000 Gallon Prestressed Concrete GST	$700,000.00	LS	See Above
59032	Furnish and Install 500000 Gallon Prestressed Concrete GST	$705,580.00	LS	See Above
59032	Furnish and Install 500000 Gallon Prestressed Concrete GST	$782,000.00	LS	See Above
59032	Furnish and Install 500000 Gallon Prestressed Concrete GST	$623,840.00	LS	See Above
59032	Furnish and install SCADA System Improvements	$111,632.00	LS	See Above
59032	Furnish and install SCADA System Improvements	$90,000.00	LS	See Above
59032	Furnish and install SCADA System Improvements	$125,000.00	LS	See Above
59032	Furnish and install SCADA System Improvements	$106,000.00	LS	See Above
59032	Furnish and install SCADA System Improvements	$107,300.00	LS	See Above
59032	Furnish and install SCADA System Improvements	$85,000.00	LS	See Above
59032	Furnish and install SCADA System Improvements	$98,760.00	LS	See Above
58070	This project includes a deep injection well pump replacement, effluent disposal, installation of replacement line shaft turbine pumps and associated piping, installation of replacement magnetic flow meter and rehab of existing hydropneumatics tank at North Port WWTP Deep Injection Well Pumping Facility.			Project 58070 Documentation
58070	Remove existing line shaft turbine pump and appurtenance	$5,000.00	EA	See Above
58070	Remove existing line shaft turbine pump and appurtenance	$47,500.00	EA	See Above
58070	Remove existing flowmeter and appurtenance	$1,000.00	LS	See Above
58070	Remove existing flowmeter and appurtenance	$7,500.00	LS	See Above
58070	Line shaft Turbine pumps, motors and appurtenances	$111,000.00	EA	See Above
58070	Line shaft Turbine pumps, motors and appurtenances	$90,000.00	EA	See Above
58070	Magnetic flowmeters and appurtenances	$18,000.00	LS	See Above
58070	Magnetic flowmeters and appurtenances	$6,000.00	LS	See Above
180502	Installation of one influent screening system, one submersible triplex master pump station, one 0.475 MGD package process plant, one filtration system, chlorine contact tank modifications, one submersible duplex reject pump station, one 1.0 MG reject water ground storage tank, one motor control storage room, one standby generator and associated yard piping, controls, electrical and site improvements at the planation Bay WWTF.			Project 180502 Documentation
180502	15 HP Package pump station	$85,000.00	LS	see above
180502	16 HP Package pump station	$57,000.00	LS	see above
180502	17 HP Package pump station	$106,030.00	LS	see above
180502	18 HP Package pump station	$47,498.00	LS	see above
180502	0.5 MG Prestressed concrete ground storage tank	$44,400.00	LS	see above
180502	0.5 MG Prestressed concrete ground storage tank	$581,646.00	LS	see above
180502	0.5 MG Prestressed concrete ground storage tank	$625,000.00	LS	see above
180502	0.5 MG Prestressed concrete ground storage tank	$470,797.68	LS	see above
180502	8" Flexible Expansion Joint	$7,000.00	EA	see above

Wastewater Treatment Process Costs				
Project Number	Project Description	Cost Estimates	Unit	OCULUS Document Link
180502	8" Flexible Expansion Joint	$5,250.00	EA	see above
180502	8" Flexible Expansion Joint	$7,825.00	EA	see above
180502	8" Flexible Expansion Joint	$6,185.58	EA	see above
180502	12" Flexible Expansion Joint	$10,000.00	EA	see above
180502	12" Flexible Expansion Joint	$8,450.00	EA	see above
180502	12" Flexible Expansion Joint	$11,295.00	EA	see above
180502	12" Flexible Expansion Joint	$9,926.50	EA	see above
180502	16" Flexible Expansion Joint	$13,000.00	EA	see above
180502	16" Flexible Expansion Joint	$12,400.00	EA	see above
180502	16" Flexible Expansion Joint	$18,110.00	EA	see above
180502	16" Flexible Expansion Joint	$28,078.76	EA	see above
48021	Construction of a new and modifications to the existing preliminary treatment facilities, converting the 3 existing packaged plant in the flow equalization basin, construction and modification the existing secondary treatment facilities, biosolids dryer and all other appurtenances.	Lacking enough details to gain beneficial cost estimates.		Project 48021 Documentation
35092	Admin/training Building and Alum Feed System (New Reclaimed water facilities)	Project unrelated to treatment costs		Project 35092 Documentation
51042	Dade City Transmission and Treatment Facilities	Lacking enough details to gain beneficial cost estimates.		Project 51042 Documentation
5051	WWTP Improvements for Oxidation Ditch Rehabilitation			Project 05051 Documentation
5051	Drain the Oxidation Ditch 460 (1000 GAL)	$11.00	1000 GAL	See Above
5051	Drain the Oxidation Ditch 460 (1000 GAL)	$40.00	1000 GAL	See Above
5051	Drain the Oxidation Ditch 460 (1000 GAL)	$60.00	1000 GAL	See Above
5051	Drain the Oxidation Ditch 460 (1000 GAL)	$3.00	1000 GAL	See Above
5051	Clean Oxidation Ditch (3000)	$5.00	TON	See Above
5051	Clean Oxidation Ditch (3000)	$90.00	TON	See Above
5051	Clean Oxidation Ditch (3000)	$100.00	TON	See Above
5051	Clean Oxidation Ditch (3000)	$20.00	TON	See Above
53044	WWTP Compost Facility	Lacking enough details to gain beneficial cost estimates.		Project 53044 Documentation
53063	Demo existing failed microturbine, evaporative cooler and, FDTN's.	Lacking enough details to gain beneficial cost estimates.		Project 53063 Documentation
9021	Crystal River Wastewater Project Area			Project 09021 Documentation
9021	Valve Pits-Type 1	$3,550.00	EA	See Above

Wastewater Treatment Process Costs				
Project Number	**Project Description**	**Cost Estimates**	**Unit**	**OCULUS Document Link**
9021	Valve Pits-Type 1	$3,757.13	EA	See Above
9021	Valve Pits-Type 2	$5,000.00	EA	See Above
9021	Valve Pits-Type 2	$3,989.85	EA	See Above
9021	Valve Pits-Type 3	$6,400.00	EA	See Above
9021	Valve Pits-Type 3	$4,440.50	EA	See Above
9021	Valve & Breather-Type 1	$1,875.00	EA	See Above
9021	Valve & Breather-Type 1	$2,360.07	EA	See Above
9021	Valve & Breather-Type 2	$1,875.00	EA	See Above
9021	Valve & Breather-Type 2	$2,360.00	EA	See Above
9021	Valve & Breather-Type 3	$1,875.00	EA	See Above
9021	Valve & Breather-Type 3	$2,204.00	EA	See Above
9021	Buffer Tank	$8,000.00	EA	See Above
4803E	Increase WWTP from 19 MG treatment capacity to 24 MG	Lacking enough details to gain beneficial cost estimates.		Project 4803E Documentation
59013	1.0 MGD treatment capacity expansion at the WWTP, including tertiary filtration system expansion, chlorine contact chamber expansion, addition of a fourth pump to the transfer pump station, chemical feed system modifications, addition of a Superior Tuning and Control (STAC) system to the existing oxidation ditch and, SCADA modifications.			Project 59013 Documentation
59013	CCC expansion	$550,000.00	LS	see above
59013	CCC expansion	$440,000.00	LS	see above
59013	Chemical feed system modifications	$36,000.00	LS	see above
59013	Chemical feed system modifications	$35,000.00	LS	see above
59013	SCADA System Modifications	$215,000.00	LS	see above
59013	SCADA System Modifications	$200,000.00	LS	see above
17033	Headworks renovations	Lacking enough details to gain beneficial cost estimates.		Project 17033 Documentation
23020	WWTF expanding an existing 0.200 MGD plant to a 0.24 MGD plant including new manual bar screen and grit chamber and, additional reactor basin and expansion of the emergency holding pond.			Project 23020 Documentation
23020	100000 gallons of sludge/grit disposal	$12,000.00	LS	see above
23020	100000 gallons of sludge/grit disposal	$94,080.00	LS	see above
23020	100000 gallons of sludge/grit disposal	$8,507.00	LS	see above
23020	100000 gallons of sludge/grit disposal	$24,000.00	LS	see above

Wastewater Treatment Process Costs				
Project Number	**Project Description**	**Cost Estimates**	**Unit**	**OCULUS Document Link**
61011	Construction of 300,000 Gallon effluent ground storage tank with the dimensions of 48Ft dia. x 24 ft height. The tank is bolted steel glass-fused and includes, aluminum dome cover, concrete pad, access ladder and, pipe connections. Related Facility work includes water transfer pump/lift station, spray field pumps, PVC piping with elbows, tees, valves and fitting and, installation of aluminum access stairs to existing WWTP.			Project 61011 Documentation
61011	Construction of 300,000 Gallon effluent ground storage tank with the dimensions of 48Ft dia. x 24 ft height. The tank is bolted steel glass-fused and includes, aluminum dome cover, concrete pad, access ladder and, pipe connections.	$325,500.00	LS	see above
61011	Construct Chlorinated Effluent Transfer Pump / Lift Station (7-ft deep x 6-ft dia) with two (2) new chlorinated effluent transfer submersible pumps, including controls and electrical service.	$118,000.00	LS	see above
61011	Install two (2) new Effluent Spray field Pump Station, including controls, VFD, Pump Station, including controls, VFD, tank level sensors, and electrical service on concrete pad.	$68,000.00	LS	see above

Wastewater Disinfection Costs

Disinfection of Wastewater Costs				
Project Number	**Project Description**	**Cost Estimates**	**Unit**	**OCULUS Document Link**
32031	Cottondale WWTP Improvements Phase II includes the rehab of 3 lift stations and a treatment plants blower and, chlorination equipment.			Project 32031 Documentation
32031	Chlorine Contact chamber reconstruction including demolition of both existing CCC tanks, construction of new tank, yard piping, bypass pumping and flow meter relocation.	$119,975.00	LS	see above
32031	Chlorine Contact chamber reconstruction including demolition of both existing CCC tanks, construction of new tank, yard piping, bypass pumping and flow meter relocation.	$91,906.00	LS	see above
32031	Chlorine Contact chamber reconstruction including demolition of both existing CCC tanks, construction of new tank, yard piping, bypass pumping and flow meter relocation.	$103,718.21	LS	see above
32031	Chlorine Contact chamber reconstruction including demolition of both existing CCC tanks, construction of new tank, yard piping, bypass pumping and flow meter relocation.	$134,401.00	LS	see above
32031	Chlorine Contact chamber reconstruction including demolition of both existing CCC tanks, construction of new tank, yard piping, bypass pumping and flow meter relocation.	$127,600.00	LS	see above
32031	Gas chlorination system completion including fiberglass building, eyewash station, alarm system, electrical and, piping.	$67,475.00	LS	see above
32031	Gas chlorination system completion including fiberglass building, eyewash station, alarm system, electrical and, piping.	$69,798.00	LS	see above
32031	Gas chlorination system completion including fiberglass building, eyewash station, alarm system, electrical and, piping.	$64,110.53	LS	see above
32031	Gas chlorination system completion including fiberglass building, eyewash station, alarm system, electrical and, piping.	$62,577.00	LS	see above
32031	Gas chlorination system completion including fiberglass building, eyewash station, alarm system, electrical and, piping.	$61,300.00	LS	see above
32031	Gas chlorination system completion including fiberglass building, eyewash station, alarm system, electrical and, piping.	$69,950.00	LS	see above
32031	Gas chlorination system completion including fiberglass building, eyewash station, alarm system, electrical and, piping.	$77,220.00	LS	see above
18050	Installation of one influent screening system, one submersible triplex master pump station, one 0.475 MGD package process plant, one filtration system, chlorine contact tank modifications, one submersible duplex reject pump station, one 1.0 MG reject water ground storage tank, one motor control storage room, one standby generator and associated yard piping, controls, electrical and site improvements at the planation Bay WWTF.			Project 18050 Documentation
18050	Reinforced Baffle walls (Contact basin)	$1,200.00	CY	see above
18050	Reinforced Baffle walls (Contact basin)	$63,000.00	CY	see above
18050	Reinforced Baffle walls (Contact basin)	$1,180.00	CY	see above

Disinfection of Wastewater Costs				
Project Number	Project Description	Cost Estimates	Unit	OCULUS Document Link
18050	Reinforced Baffle walls (Contact basin)	$5,780.88	CY	see above
18050	Reinforced concrete Effluent trough (Contact basin)	$1,200.00	CY	see above
18050	Reinforced concrete Effluent trough (Contact basin)	$2,400.00	CY	see above
18050	Reinforced concrete Effluent trough (Contact basin)	$810.00	CY	see above
18050	Reinforced concrete Effluent trough (Contact basin)	$3,626.13	CY	see above

Wastewater Collection System

Wastewater Collection System Costs			
Project Number	**Project Description**	**Cost Estimates**	**Unit**
53033	3" Sewer Force Main PVC	$4.00	LF
53033	6" Sewer Force Main PVC	$17.00	LF
53033	8" Sewer Force Main PVC	$33.00	LF
53033	12" Sewer Force Main PVC	$34.00	LF
53033	8" Gravity Sewer PVC	$115.00	LF
9013	18" Gravity Sewer PVC	$60.00	LF
9013	24" Gravity Sewer PVC	$100.00	LF
9013	36" Gravity Sewer PVC	$150.00	LF
9013	42" Gravity Sewer PVC with bore and jack	$750.00	LF
53033	3" Directional Bore Sewer	$7.00	LF
53033	6" Directional Bore Sewer	$28.00	LF
53033	8" Directional Bore Sewer	$39.00	LF
53033	12" Directional Bore Sewer	$47.00	LF
53033	3" Sewer Force Main HDPE	$5.00	LF
53033	6" Sewer Force Main HDPE	$20.00	LF
53033	8" Sewer Force Main HDPE	$14.00	LF
53033	12" Sewer Force Main HDPE	$28.00	LF
53033	8" Jack and Bore Sewer	$99.00	LF
53033	18" Steel Sleeve	$864.00	LF
53033	3" DIP	$45.00	LF
53033	12" DIP	$75.00	LF
64096	16" Sewer Force Main DIP	$234.00	LF
64096	20" Sewer Force Main DIP	$229.00	LF
64096	24" Sewer Force Main DIP	$900.00	LF
64096	30" Sewer Force Main DIP	$300.00	LF
64096	Gravity Sewer Manhole	$9,960.00	EA
64096	.5" Air Release Valve	$7,595.00	EA
64096	2" Air Release Assembly Sewer	$8,183.00	EA
52021	3" Air Release Assembly Sewer	$15,200.00	EA
52021	4" Air Release Assembly Sewer	$16,400.00	EA
52021	6" Air Release Assembly Sewer	$27,000.00	EA
52021	16" Wet Weather Control Valve and Vault	$90,000.00	EA
52021	20" Wet Weather Control Valve and Vault	$100,000.00	EA
64096	Automatic Air Release/Vacuum Valve Assembly and Vault	$15,658.00	EA
64096	Fiberglass LS with electrical Panel	$76,076.00	EA
64096	Complete LS package with electrical components	$380,250.00	EA
64096	Directional Drill River Crossing (Dual 30" FPVC)	$765.00	LF
66023	Manhole Rehabilitation Including pass through or bypass pumping, cleaning, reworking benches, leak detection, repair, maintenance of traffic, and lining.	$235.00	VF

Wastewater Collection System Costs			
Project Number	**Project Description**	**Cost Estimates**	**Unit**
66023	Pre-construction video prior to construction between manholes including cleaning, bypass pumping, maintenance of traffic, and lateral locates.	$35.00	LF
66023	CIPP/lining existing 4" gravity mains including jetting laterals, installation of approved liner systems in the existing gravity main to R/W line, maintenance of traffic, and bypass pumping.	$100.00	LF
66023	CIPP/lining existing 6" gravity mains including jetting laterals, installation of approved liner systems in the existing gravity main to R/W line, maintenance of traffic, and bypass pumping.	$40.00	LF
66023	CIPP/lining existing 8" gravity mains including jetting laterals, installation of approved liner systems in the existing gravity main to R/W line, maintenance of traffic, and bypass pumping.	$30.00	LF
66023	CIPP/lining existing 10" gravity mains including jetting laterals, installation of approved liner systems in the existing gravity main to R/W line, maintenance of traffic, and bypass pumping.	$34.00	LF
66023	Point repair including excavation repair/replace of gravity sewer main 10" under existing asphalt roadway, maintain traffic, line repair, bypass pumping, dewatering, new pipe, asphalt patch.		
66023	0 - 4' cut	$7,000.00	EA
66023	4' - 6' cut	$8,000.00	EA
66023	6' - 8" cut	$9,000.00	EA
66023	8' - 10" cut	$10,000.00	EA
66023	10' - 12" cut	$11,000.00	EA
66023	Point repair includes excavation repair/replace of gravity sewer main 10" under 4" thick concrete paving, maintain traffic, line repair, bypass pumping, dewatering, new pipe, asphalt patch.		
66023	0 - 4' cut	$7,500.00	EA
66023	4' - 6' cut	$8,500.00	EA
66023	6' - 8" cut	$9,500.00	EA
66023	8' - 10" cut	$10,500.00	EA
66023	10' - 12" cut	$11,500.00	EA
66023	Point repair includes excavation repair/replace of gravity sewer main 10" under 6" thick concrete paving, maintain traffic, line repair, bypass pumping, dewatering, new pipe, asphalt patch.		
66023	0 - 4' cut	$8,000.00	EA
66023	4' - 6' cut	$9,000.00	EA
66023	6' - 8" cut	$10,000.00	EA
66023	8' - 10" cut	$11,000.00	EA
66023	10' - 12" cut	$12,000.00	EA

Wastewater Collection System Costs			
Project Number	**Project Description**	**Cost Estimates**	**Unit**
66023	10 - Post Video Inspection of all improved 6" Areas	$3.00	LF
66023	Point repair includes excavation repair/replace of gravity sewer main 6" under existing asphalt roadway, maintain traffic, line repair, bypass pumping, dewatering, new pipe, asphalt patch.		
66023	0 - 4' cut	$6,700.00	EA
66023	4' - 6' cut	$7,700.00	EA
66023	6' - 8" cut	$8,700.00	EA
66023	8' - 10" cut	$9,700.00	EA
66023	10' - 12" cut	$10,700.00	EA
66023	Point repair includes excavation repair/replace of gravity sewer main 6" under 4" thick concrete paving, maintain traffic, line repair, bypass pumping, dewatering, new pipe, asphalt patch.		
66023	0 - 4' cut	$7,200.00	EA
66023	4' - 6' cut	$8,200.00	EA
66023	6' - 8" cut	$9,200.00	EA
66023	8' - 10" cut	$10,200.00	EA
66023	10' - 12" cut	$11,200.00	EA
66023	Point repair includes excavation repair/replace of gravity sewer main 6" under 6" thick concrete paving, maintain traffic, line repair, bypass pumping, dewatering, new pipe, asphalt patch.		
66023	0 - 4' cut	$7,700.00	EA
66023	4' - 6' cut	$8,700.00	EA
66023	6' - 8" cut	$9,700.00	EA
66023	8' - 10" cut	$10,700.00	EA
66023	10' - 12" cut	$11,700.00	EA
66023	Post video inspection of all improved 6" Areas	$4.00	LF
32020	**Video Inspection**		
32020	Cleaning and Televising 6" to 10"	$0.99	LF
32020	Cleaning and Televising 12" to 16"	$1.74	LF
32020	Heavy Cleaning 6" to 10"	$0.50	LF
32020	Heavy Cleaning 12" to 16"	$0.99	LF
32020	Obstruction Removal	$300.00	EA
32020	Fence Type B 6' High Vinyl Coated Chain Link	$100.00	LF
32020	Fence Gate Type B Double Swing 16" Wide Opening 6' High	$1,500.00	EA
"05062"	Smoke Test	$2.00 avg.	LF
"05062"	Internal Inspection and Cleaning: 8" to 15" Pipe	$3.00 avg.	LF
"05062"	Internal Inspection and Cleaning: >15" Pipe and Elliptical	$6.00 avg.	LF

Wastewater Collection System Costs			
Project Number	**Project Description**	**Cost Estimates**	**Unit**
"05062"	Cured-in-Place Pipe (CIPP) Stormwater Lining: 12 X 22"	$108.50 avg.	LF
"05062"	Cured-in-Place Pipe (CIPP) Stormwater Lining: 18 X 28"	$137.50 avg.	LF
"05062"	Cured-in-Place Pipe (CIPP) Stormwater Lining: 15 X 24"	$103.00 avg.	LF
"05062"	Cured-in-Place Pipe (CIPP) Stormwater Lining: 25 X 42"	$189.50 avg.	LF
"05062"	Cured-in-Place Pipe (CIPP) Stormwater Lining: 18 X 29"	$135.00 avg.	LF
"05062"	Cured-in-Place Pipe (CIPP) Stormwater Lining: 30"	$150.00 avg.	LF
"05062"	Cured-in-Place Pipe (CIPP) Stormwater Lining: 14"	$106.50 avg.	LF
"05062"	Cured-in-Place Pipe (CIPP) Stormwater Lining: 13 X 21"	$114.50 avg.	LF
"05062"	Root Removal	$11.50 avg.	LF
"05062"	Manhole lining measured vertically.	$237.50 avg.	LF
48038	Rehabilitation and improvements to an existing pump station (#3597/Marriott) including relining existing wet well, constructing a new wet well and installing submersible pumps, constructing a new inlet manhole and a new influent and force main piping.	$2,438,000.00	LS
8025	Construction of a High Service Pump Station (HSPS) with capability of 18 MGD and forced main construction.		
8025	Construct HSPS No. 2 Structure	$524,200.00	EA
8025	Construct HSPS No. 2 Structure	$448,000.00	EA
8025	Construct HSPS No. 2 Structure	$454,037.00	EA
8025	Construct HSPS No. 2 Pumps	$840,600.00	EA
8025	Construct HSPS No. 2 Pumps	$645,000.00	EA
8025	Construct HSPS No. 2 Pumps	$852,115.00	EA
8025	Construct HSPS No2 Self Cleaning Filters	$428,800.00	EA
8025	Construct HSPS No2 Self Cleaning Filters	$511,000.00	EA
8025	Construct HSPS No2 Self Cleaning Filters	$776,475.00	EA
8025	Construct HSPS No. 2 piping	$428,800.00	EA
8025	Construct HSPS No. 2 piping	$511,000.00	EA
8025	Construct HSPS No. 2 piping	$776,475.00	EA
8025	HSPS No. 2 Geotechnical Quality Control Testing	$5,000.00	EA
8025	HSPS No. 2 CIP Concrete Quality Control Testing	$5,000.00	EA
8025	HSPS No. 2 Piping Quality Control Testing	$5,000.00	EA
8025	Electrical, Instrumentation and Controls for HSPS No. 2	$1,017,100.00	EA
8025	Electrical, Instrumentation and Controls for HSPS No. 2	$1,082,000.00	EA
8025	Electrical, Instrumentation and Controls for HSPS No. 2	$889,018.00	EA
5090	The work consists of furnishing all material, labor, and equipment necessary for constructing Water Reclamation Facility expansion & energy efficiency improvements.		
5090	Screen Refurbishment	$175,000.00	EA
5090	Screen Refurbishment	$125,000.00	EA
5090	Screen Refurbishment	$250,000.00	EA

Wastewater Collection System Costs			
Project Number	**Project Description**	**Cost Estimates**	**Unit**
5090	Screen Refurbishment	$135,000.00	EA
5090	Screen Refurbishment	$135,020.00	EA
5090	Secondary Effluent Tank Valve	$25,000.00	EA
5090	Secondary Effluent Tank Valve	$20,000.00	EA
5090	Secondary Effluent Tank Valve	$40,000.00	EA
5090	Secondary Effluent Tank Valve	$25,000.00	EA
5090	Secondary Effluent Tank Valve	$30,000.00	EA
5090	Secondary Effluent Tank Valve	$20,000.00	EA
5090	Secondary Effluent Tank Valve	$19,259.00	EA
48043	Construct modifications to Lift Stations No. 16, 17, 52 and 57. The modifications will eliminate a safety hazard and improve the efficiency of pumping operations.	$2,490,212.00	
48043	Bypass pumping Lift Station 16	$43,000.00	EA
48043	Submersible pump Lift Station 16, 17, 52	$10,000.00	EA
48043	Wet well with FRP liner Lift Station 16	$170,000.00	EA
48043	Wet well with FRP liner Lift Station 16	$70,000.00	EA
48043	Bypass pumping Lift Station 17	$36,000.00	EA
48043	Bypass pumping Lift Station 17	$24,000.00	EA
48043	Wet well with FRP liner Lift Station 17	$150,000.00	EA
48043	Wet well with FRP liner Lift Station 17	$65,000.00	EA
48043	Bypass pumping Lift Station 52	$23,000.00	EA
48043	Bypass pumping Lift Station 53	$54,000.00	EA
48043	Wet Well Rehabilitation (Epoxytech Liner) Lift Station 52	$22,000.00	EA
48043	Wet Well Rehabilitation (Epoxytech Liner) Lift Station 52	$17,000.00	EA
48043	Bypass pumping Lift Station 57	$42,000.00	EA
48043	Bypass pumping Lift Station 57	$24,000.00	EA
13181	Furnish, install and have functional the subject 10" force main on NE 131st Street, between NE 8th Ave and NE 12th Ave. Also furnish, install and have functional the subject 10" force main onNE 12th Ave between NE 131st Stand NE 130th Street, including roadway, paving marking, and site restoration.		
13181	Automatic Air Release Valve Assembly, Wastewater Service	$3,000.00	EA
13181	Automatic Air Release Valve Assembly, Wastewater Service	$4,775.13	EA
13181	Automatic Air Release Valve Assembly, Wastewater Service	$6,000.00	EA
13181	Automatic Air Release Valve Assembly, Wastewater Service	$1,500.00	EA
13181	Automatic Air Release Valve Assembly, Wastewater Service	$2,408.33	EA
13181	Automatic Air Release Valve Assembly, Wastewater Service	$75,000.00	EA
13181	Force Main 8" DIP Open Cut	$798.00	LF
13181	Force Main 10" DIP Open Cut	$110.30	LF
13181	Plug Valve 10"	$7,823.90	EA

Wastewater Collection System Costs			
Project Number	**Project Description**	**Cost Estimates**	**Unit**
67022	Replace approximately 19,000 LF of gravity sewer line, approximately 72 manholes and, one lift station.	Lacking enough details to gain beneficial cost estimates.	
26041	Master Pump Station Rehabilitation	Lacking enough details to gain beneficial cost estimates.	
3071	Project includes installing approximately 5100 LF of 8" force main, 603 LF of 6" force main, 1123 LF of 4" force main and, rehabilitation of approximately 150 vertical feet of manholes. Also upgrades to two lift stations, 10" HDPE directional bore totaling approximately 300 LF and, one 6" HDPE directional bores totaling approximately 50 LF.		
3071	4" PVC Sewer Force Main (With Fittings)	$20,826.42	LS
3071	4" PVC Sewer Force Main (With Fittings)	$17,690.00	LS
3071	4" PVC Sewer Force Main (With Fittings)	$50,000.00	LS
3071	6" PVC Sewer Force Main (With Fittings)	$38,145.60	LS
3071	6" PVC Sewer Force Main (With Fittings)	$32,720.00	LS
3071	6" PVC Sewer Force Main (With Fittings)	$67,500.00	LS
3071	8" PVC Sewer Force Main (With Fittings)	$179,085.35	LS
3071	8" PVC Sewer Force Main (With Fittings)	$166,546.00	LS
3071	8" PVC Sewer Force Main (With Fittings)	$295,000.00	LS
3071	6" HDPE Directional Bores (with transition fittings)	$5,598.90	LS
3071	6" HDPE Directional Bores (with transition fittings)	$6,080.00	LS
3071	6" HDPE Directional Bores (with transition fittings)	$7,500.00	LS
3071	8" HDPE Directional Bores (with transition fittings)	$20,158.71	LS
3071	8" HDPE Directional Bores (with transition fittings)	$41,100.00	LS
3071	8" HDPE Directional Bores (with transition fittings)	$21,000.00	LS
3071	10" HDPE Directional Bores (with transition fittings)	$9,515.78	LS
3071	10" HDPE Directional Bores (with transition fittings)	$20,740.00	LS
3071	10" HDPE Directional Bores (with transition fittings)	$15,000.00	LS
3071	Pump and control panel upgrades to lift station	$135,777.88	LS
3071	Pump and control panel upgrades to lift station	$80,000.00	LS
3071	Pump and control panel upgrades to lift station	$175,000.00	LS
3071	SCADA Upgrades	$9,720.00	LS
3071	SCADA Upgrades	$15,000.00	LS
3071	SCADA Upgrades	$50,000.00	LS
53031	Lift Station No. 16 Service Area Sewer Replacement Phase 2 approximately 53 city blocks of sewer replacement.		
53031	Project includes installation of 8" PVC sewer lines with, dewatering, testing and, site restoration to preconstructions conditions.	$211.65	LF

Wastewater Collection System Costs			
Project Number	**Project Description**	**Cost Estimates**	**Unit**
53031	Project includes installation of sanitary manholes with, dewatering, testing and, site restoration to preconstructions conditions.	$5,250.00	LF
53031	New single sewer service at vacant lot.	$500.00	EA
53031	New double sewer service at vacant lot.	$700.00	EA
74508	Pump station improvement project.	Lacking enough details to gain beneficial cost estimates.	
41032	Bridge replacement including water main replacement.	Lacking enough details to gain beneficial cost estimates.	
13011	North Miami Beach Major Sewer Rehabilitation in order to reduce infiltration due to aging collection system including, excavated point repairs, manhole installation and portions of manhole rehabilitation, mainline pipe lining, lateral lining and mainline sectional lining.		
13011	Install new standard precast concrete 48-inch diameter sewer manhole (up to 4 ft inch depth)	$5,500.00	EA
13011	Install new standard precast concrete 48-inch diameter sewer manhole (up to 4 ft inch depth)	$4,500.00	EA
13011	Install new standard precast concrete 48-inch diameter sewer manhole (4 -6 ft inch depth)	$6,500.00	EA
13011	Install new standard precast concrete 48-inch diameter sewer manhole (4 -6 ft inch depth)	$5,800.00	EA
13011	Install new standard precast concrete 48-inch diameter sewer manhole (6 -8 ft inch depth)	$8,000.00	EA
13011	Install new standard precast concrete 48-inch diameter sewer manhole (6 -8 ft inch depth)	$7,500.00	EA
13011	Install new standard precast concrete 48-inch diameter sewer manhole (8 -10 ft inch depth)	$8,900.00	EA
13011	Install new standard precast concrete 48-inch diameter sewer manhole (8 -10 ft inch depth)	$10,000.00	EA
13011	Install new standard precast concrete 48-inch diameter sewer manhole (10 -12 ft inch depth)	$10,000.00	EA
13011	Install new standard precast concrete 48-inch diameter sewer manhole (10 -12 ft inch depth)	$11,500.00	EA
13011	Install new standard precast concrete 48-inch diameter sewer manhole (12 -14 ft inch depth)	$12,000.00	EA
13011	Install new standard precast concrete 48-inch diameter sewer manhole (12 -14 ft inch depth)	$13,500.00	EA

Wastewater Collection System Costs			
Project Number	**Project Description**	**Cost Estimates**	**Unit**
13011	Install new standard precast concrete 48-inch diameter sewer manhole (14 -16 ft inch depth)	$14,000.00	EA
13011	Install new standard precast concrete 48-inch diameter sewer manhole (14 -16 ft inch depth)	$18,900.00	EA
13011	bypass pumping (6-inch through 10-inch sewer)	$500.00	Day
13011	bypass pumping (6-inch through 10-inch sewer)	$300.00	Day
13011	bypass pumping (12-inch through 15-inch sewer)	$1,000.00	Day
13011	bypass pumping (12-inch through 15-inch sewer)	$350.00	Day
13011	bypass pumping (18-inch through 21-inch sewer)	$4,000.00	Day
13011	bypass pumping (18-inch through 21-inch sewer)	$500.00	Day
13011	bypass pumping (24-inch sewer)	$4,500.00	Day
13011	bypass pumping (24-inch sewer)	$600.00	Day
13011	Mechanical root or grease removal (12-inch or smaller)	$3.00	LF
13011	Mechanical root or grease removal (12-inch or smaller)	$3.00	LF
13011	Mechanical root or grease removal (15-inch through 24 inch)	$4.00	LF
13011	Mechanical root or grease removal (15-inch through 24 inch)	$3.50	LF
52081	Rehab of lift stations Nos 6,7,8 and 9.	Lacking enough details to gain beneficial cost estimates.	
48032	Orange County Major Sewer Rehabilitation including replacement and repair of approximately 2,100LF of 12" and 9,800 LF of 8" gravity sewer piping, 52 manholes, 300-6" laterals and 234 service laterals, replacement of curb and gutter, and 38,000 SY of pavement restoration.		
48032	Abandon Existing Manhole	$2,000.00	EA
48032	Abandon Existing Manhole	$500.00	EA
48032	Abandon Existing Manhole	$2,300.00	EA
48032	Abandon Existing Manhole	$1,650.00	EA
48032	Abandon Existing Manhole	$550.00	EA
62511	Ward Basin Rd Lift Station and Force Main project includes construction and install of 11,280 LF 8" PVC force main by conventional direct bury and, install 4,000 LF 10" HDPE force main by the horizontal directional drilling method.		
62511	Portable Generator 100KW	$47,160.55	LS
28410	Pump Station No. 1 and Storage Tank		
28410	2" SCH 40 PVC Force main	$20.96	LF
28410	3" SCH 40 PVC Force main	$28.86	LF
3050	City of Springfield project to construct 16,000 LF of gravity sewer pipe of 8" to 15" diameter, 48 manholes, 21,000 LF of cured in place pipe (CIPP) and, 24,000 CY of backfill.	Lacking enough details to gain beneficial cost estimates.	

Wastewater Collection System Costs			
Project Number	**Project Description**	**Cost Estimates**	**Unit**
48046	Lift Station No 5 replacements by constructing a new lift station Northeast of the existing station with the following major features; a below-grade wet well housing with four 110 HP submersible wastewater pumps, above grade structure located above the wet-well that includes separate pump, electrical, generator and rest rooms along with a monorail hoist system and other supporting HVAC, mechanical and electrical systems. The above-grade building shall include landscaping and architectural features including a screening wall, an outdoor concrete diesel fuel tank system to supply the standby generator system, a packaged odor control system located outdoors to treat foul air from the wet well. The project also involves the interception and rerouting of the existing influent sewers from the existing pumping station to the new station, intercept and reroute existing 24 inch and 18-inch force main to new station and demo existing Lift Station 5.		
48046	wet well- excavation, construction, coating, lining and testing	$1,050,000.00	LS
48046	wet well- excavation, construction, coating, lining and testing	$811,000.00	LS
48046	wet well- excavation, construction, coating, lining and testing	$1,266,000.00	LS
48046	Submersible non-clog pumps and motors	$2,000.00	EA
48046	Submersible non-clog pumps and motors	$130,000.00	EA
48046	Submersible non-clog pumps and motors	$125,000.00	EA
48046	Odor Control System -Complete	$200,000.00	LS
48046	Odor Control System -Complete	$216,000.00	LS
48046	Odor Control System -Complete	$212,000.00	LS
48046	Diesel Fuel; Storage Tanks	$100,000.00	LS
48046	Diesel Fuel; Storage Tanks	$206,000.00	LS
48046	Diesel Fuel; Storage Tanks	$160,000.00	LS
48046	Standby Emergency Generator	$225,000.00	LS
48046	Standby Emergency Generator	$187,000.00	LS
48046	Standby Emergency Generator	$190,000.00	LS
48046	RTU and HMI Programing	$60,000.00	LS
48046	RTU and HMI Programing	$10,000.00	LS
6122	Inflow and Infiltration Phase III	Lacking enough details to gain beneficial cost estimates.	
30012	Inflow and Infiltration Improvements Phase 2 include replacement of gravity sewer and manholes, rehab of sewer pumping station, removal of valve box and discharge piping, bypass pumping and, epoxy liner for wet well.	Lacking enough details to gain beneficial cost estimates.	
4803D	Forced Main and Reclaimed WM Improvements include 13,000 LF of 20", 24", and 30" PVC force main and 12,000 LF of 20” DIP reclaimed water main.		
4803D	10" RWM Gate Valve with Valve Box	$600.00	EA
4803D	10" RWM Gate Valve with Valve Box	$3,000.00	EA

Wastewater Collection System Costs			
Project Number	**Project Description**	**Cost Estimates**	**Unit**
4803D	10" RWM Gate Valve with Valve Box	$1,800.00	EA
4803D	10" RWM Gate Valve with Valve Box	$2,500.00	EA
4803D	10" RWM Gate Valve with Valve Box	$2,035.00	EA
4803D	10" RWM Gate Valve with Valve Box	$2,100.00	EA
4803D	12" RWM Gate Valve with Valve Box	$650.00	EA
4803D	12" RWM Gate Valve with Valve Box	$3,300.00	EA
4803D	12" RWM Gate Valve with Valve Box	$2,100.00	EA
4803D	12" RWM Gate Valve with Valve Box	$3,000.00	EA
4803D	12" RWM Gate Valve with Valve Box	$2,623.00	EA
4803D	12" RWM Gate Valve with Valve Box	$2,500.00	EA
4803D	24" RWM Gate Valve with Valve Box	$800.00	EA
4803D	24" RWM Gate Valve with Valve Box	$16,300.00	EA
4803D	24" RWM Gate Valve with Valve Box	$15,500.00	EA
4803D	24" RWM Gate Valve with Valve Box	$17,000.00	EA
4803D	24" RWM Gate Valve with Valve Box	$16,826.00	EA
4803D	24" RWM Gate Valve with Valve Box	$14,000.00	EA
4803D	Reclaimed water air release valve	$2,500.00	EA
4803D	Reclaimed water air release valve	$4,500.00	EA
4803D	Reclaimed water air release valve	$4,500.00	EA
4803D	Reclaimed water air release valve	$3,500.00	EA
4803D	Reclaimed water air release valve	$6,465.00	EA
4803D	Reclaimed water air release valve	$5,500.00	EA
36090	This project includes replacing 77,450 LF of existing water main, 54,950 LF of sanitary sewer (gravity and force main) within the CRA and, site restoration that encompasses approximately 60,000 LF of roadway.	Lacking enough details to gain beneficial cost estimates.	
6161	SRF Project Rehab of Sanitary Sewer System Rehab Phase II.		
6161	Install F&F liner 8 Inch Diameter gravity mains	$22.60	LF
6161	Install F&F liner 12 Inch Diameter gravity mains	$28.00	LF
6161	Install F& F Liner in 4" to 6" laterals (includes 15 feet of lateral)	$880.00	EA
6161	Install F& F Liner in 4" to 6" laterals (per LF beyond 15 feet of lateral)	$104.50	LF
60801	Potable water, sanitary sewer and drainage improvements		
60801	Compaction and Materials Testing	$50,000.00	N/A
60801	Ductile Iron Pipe (Cl. 350) Force main- 4"	$110.36	LF
60801	Ductile Iron Pipe (Cl. 350) Force main- 4"	$157.00	LF
60801	Ductile Iron Pipe (Cl. 350) Force main- 4"	$83.00	LF
60801	Ductile Iron Pipe (Cl. 350) Force main- 4"	$45.00	LF
60801	Ductile Iron Pipe (Cl. 350) Force main- 4"	$55.00	LF
60801	Ductile Iron Pipe (Cl. 350) Force main- 4"	$85.00	LF
60801	Ductile Iron Pipe (Cl. 350) Force main- 4"	$83.00	LF

Wastewater Collection System Costs			
Project Number	**Project Description**	**Cost Estimates**	**Unit**
60801	Ductile Iron Pipe (Cl. 350) Force main- 8"	$186.02	LF
60801	Ductile Iron Pipe (Cl. 350) Force main- 8"	$160.00	LF
60801	Ductile Iron Pipe (Cl. 350) Force main- 8"	$134.00	LF
60801	Ductile Iron Pipe (Cl. 350) Force main- 8"	$46.00	LF
60801	Ductile Iron Pipe (Cl. 350) Force main- 8"	$68.00	LF
60801	Ductile Iron Pipe (Cl. 350) Force main- 8"	$69.00	LF
60801	Ductile Iron Pipe (Cl. 350) Force main- 8"	$99.00	LF
60801	Ductile Iron Pipe (Cl. 350) Force main- 10"	$74.90	LF
60801	Ductile Iron Pipe (Cl. 350) Force main- 10"	$96.00	LF
60801	Ductile Iron Pipe (Cl. 350) Force main- 10"	$98.00	LF
60801	Ductile Iron Pipe (Cl. 350) Force main- 10"	$60.00	LF
60801	Ductile Iron Pipe (Cl. 350) Force main- 10"	$71.00	LF
60801	Ductile Iron Pipe (Cl. 350) Force main- 10"	$67.00	LF
60801	Ductile Iron Pipe (Cl. 350) Force main- 10"	$92.00	LF
36010	This project includes construction of water transmission mains, irrigation water transmission mains, force main transmission mains, gravity sewer mains, storm drain replacement, wastewater pump stations, restoration, road reconstruction.	Lacking enough details to gain beneficial cost estimates.	
53061	Skyview Utilities Water and Wastewater System Improvements include replacement of eight existing duplex lift stations, improvements to the Trade winds lift station including the addition of one submersible pump, emergency standby generator and new control panel, approximately 3,700 LF of new 8-inch diameter force main, 2,050 LF of new 6-inch diameter force main, 350 LF of 4-inch force main, 80 LF of jack and bore 18-inch casing with 8-inch force main, 670 LF of directional drill fusible PVC, 66 new manholes, rehabilitation! replacement of approximately 24,000 LF of gravity sewer piping and 79 associated manholes, connections, fittings and services, and demolition of the existing Skyview Wastewater Treatment Plant (WWTP). The water system improvements include installation of approximately 7,900 LF of 6-inch water main,50 LF of 4-inch water main and 60 LF of 2-inch water main, and associated meters, connections, fire hydrants, valves, and services. The facility has a permitted capacity of 13.7 million gallons per day (MGD) based on a 12-month average daily flow. The average FY 2012 flow to the facility was approximately 60% of its permitted capacity.	Lacking enough details to gain beneficial cost estimates.	
64090	Lift Station No. 10 infrastructure Improvements-Part B involve construction of a new 30" force main by using a combination of excavation and burying. The force main will run east of WWTP running under the golf course and I-95. This force main will connect lift station 10 and allow for infrastructure improvements to 30" PCCP lining project on east of I-95.	Lacking enough details to gain beneficial cost estimates.	
58030	Septic System Replacement Program phase II involves construction of vacuum sewers and water mains, vacuum valve pits, valves, fittings, connections and, restoration of site.		

Wastewater Collection System Costs			
Project Number	**Project Description**	**Cost Estimates**	**Unit**
58030	Water Service Short Side	$506.00	EA
58030	Water Service Short Side	$600.00	EA
58030	Water Service Short Side	$750.00	EA
58030	Water Service long Side	$629.00	EA
58030	Water Service long Side	$700.00	EA
58030	Water Service long Side	$980.00	EA
48031	Project to include work in the South street area and east service area. Work will include a 36" water main, a 20" reclaimed water main, 24,500 LF of ductile iron 36", water main 14,500 LF of 20", reclaimed water main, 830 LF of 24" water main, fire hydrants, valves and, appurtenances.		
48031	Forced main pressure testing; flush force main segments, Pressure test segments	$2,000.00	EA
48031	Cut and cap existing 4" WM & connection of new pipe to system	$1,242.00	EA
48031	Cut and cap existing 4" WM & connection of new pipe to system	$1,420.00	EA
48031	Cut and cap existing 4" WM & connection of new pipe to system	$160.00	EA
48031	Cut and cap existing 6" WM & connection of new pipe to system	$2,500.00	EA
48031	Cut and cap existing 6" WM & connection of new pipe to system	$1,221.00	EA
48031	Cut and cap existing 6" WM & connection of new pipe to system	$1,500.00	EA
48031	Cut and cap existing 6" WM & connection of new pipe to system	$200.00	EA
48031	Cut and cap existing 8" WM & connection of new pipe to system	$1,750.00	EA
48031	Cut and cap existing 8" WM & connection of new pipe to system	$1,378.00	EA
48031	Cut and cap existing 8" WM & connection of new pipe to system	$1,700.00	EA
48031	Cut and cap existing 8" WM & connection of new pipe to system	$240.00	EA
48031	Cut and cap existing 12" WM & connection of new pipe to system	$2,800.00	EA
48031	Cut and cap existing 12" WM & connection of new pipe to system	$1,281.00	EA
48031	Cut and cap existing 12" WM & connection of new pipe to system	$2,150.00	EA
48031	Cut and cap existing 12" WM & connection of new pipe to system	$280.00	EA
48031	Cut and cap existing 16" WM & connection of new pipe to system	$3,500.00	EA
48031	Cut and cap existing 16" WM & connection of new pipe to system	$2,260.00	EA
48031	Cut and cap existing 16" WM & connection of new pipe to system	$3,025.00	EA
48031	Cut and cap existing 16" WM & connection of new pipe to system	$480.00	EA
48031	Cut and cap existing 20" WM & connection of new pipe to system	$5,000.00	EA
48031	Cut and cap existing 20" WM & connection of new pipe to system	$1,945.00	EA
48031	Cut and cap existing 20" WM & connection of new pipe to system	$4,350.00	EA
48031	Cut and cap existing 20" WM & connection of new pipe to system	$800.00	EA
64021	Airport Main and Reclaimed Water Main		
64021	Blow off Assembly 2"	$898.00	EA
64021	Blow off Assembly 2"	$2,439.48	EA
64021	Blow off Assembly 2"	$1,800.00	EA
64021	Blow off Assembly 2"	$2,514.00	EA

Wastewater Collection System Costs			
Project Number	**Project Description**	**Cost Estimates**	**Unit**
84805	This project includes construction of the Alafaya Woods Section 17 & 18 and, little Creek Reclaimed Water Retrofit.	Lacking enough details to gain beneficial cost estimates.	
41034	17th Ave West Bridge Replacement.	Lacking enough details to gain beneficial cost estimates.	
59050	Longwood Collection System Expansion; Septic Tank Abandonment (240)		
59050	Septic Tank Abandonment/House Lateral Installation	$4,950.00	EA
59050	Septic Tank Abandonment/House Lateral Installation	$6,350.00	EA
59050	Septic Tank Abandonment/House Lateral Installation	$4,950.00	EA
58044	Reclaimed Water Distribution System Improvements		
58044	Forced main pressure testing; flush force main segments, Pressure test segments	$10,000.00	EA
8020	New Wastewater Collection and Transmission Facilities.	Lacking enough details to gain beneficial cost estimates.	
27015	County line road force main/spring hill pump stations.	Lacking enough details to gain beneficial cost estimates.	
25020	Bowling Green 2015 Sanitary Sewer Improvements-CCTV including point repairs of 9 existing sanitary sewer lines, installation of cured-in-place-pipe in 250 LF of 6", 7,380 LF of 8" and, 266 LF of 10" sewer line. This project also includes replacement of 315 LF of line DIP manhole rehabilitation with installation of 507 VF of CIP or spray manhole Liner (poly-liner or equal) in 84 manholes, chimney seal of 29 manholes, bench repair of 8 manholes, 42 pipe seals, 26 frame and cover replacements, 35 cover adjustments, locate lateral cleanouts throughout the city and, install 720 cleanout plugs.		
25020	Cleaning/surface preparation including existing liner removal if necessary, bypass pumping, water transport waste disposal.	$25.00	VF
25020	Cleaning/surface preparation including existing liner removal if necessary, bypass pumping, water transport waste disposal.	$80.00	VF
25020	Cleaning/surface preparation including existing liner removal if necessary, bypass pumping, water transport waste disposal.	$5.60	VF
25020	Poly Liner Installation	$180.00	VF
25020	Poly Liner Installation	$200.00	VF
25020	Poly Liner Installation	$223.00	VF
25020	Chimney Seal	$375.00	EA
25020	Chimney Seal	$590.00	EA

Wastewater Collection System Costs			
Project Number	**Project Description**	**Cost Estimates**	**Unit**
25020	Chimney Seal	$389.00	EA
25020	Bench repair	$450.00	EA
25020	Bench repair	$152.00	EA
25020	Bench repair	$361.00	EA
25020	Installation of Manhole Inflow Preventer Inserts	$150.00	EA
25020	Installation of Manhole Inflow Preventer Inserts	$90.00	EA
25020	Installation of Manhole Inflow Preventer Inserts	$55.60	EA
25020	water proof Cleanout plugs	$75.00	EA
25020	water proof Cleanout plugs	$41.29	EA
25020	water proof Cleanout plugs	$30.00	EA

Stormwater System Costs

Stormwater System Costs			
Project Number	**Project Description**	**Cost Estimates**	**Unit**
59014	Mobilization	$400,000.00	LS
59014	Maintenance of Traffic (MOT)	$49,500.00	LS
59014	Maintenance of Traffic Detours - Allowance	$2,200.00	LS
59014	Maintenance of Traffic - Allowance	$16,500.00	LS
59014	Business Sign	$77.00	EA
59014	Barrier Wall, REL, Type K- Rental	$16.50	LF
59014	Arrow Board/Panel	$7.00	DA
59014	Portable Changeable Sign, Temp	$14.00	DA
59014	Sediment Barrier	$1.00	LF
59014	Floating Turbidity Barrier	$11.00	LF
59014	Soil Tracking Prevention Device	$1,320.00	EA
59014	Inlet Protection System	$82.50	EA
59014	Field Office- Allowance	$1.00	LS
59014	Clearing and Grubbing	$5,500.00	AC
59014	Mailbox, F&I Single	$110.00	EA
59014	Site Security - Allowance	$1.00	LS
59014	Field Survey Services - Allowance	$36,300.00	LS
59014	Field Testing Services - Allowance	$22,000.00	LS
59014	Temp, Private Driveway	$550.00	EA
59014	Embankment	$14.00	CY
59014	Embankment Stabilization	$16.50	CY
59014	Flowable Fill	$165.00	CY
59014	Select Bedding Material	$33.00	CY
59014	Type B Stabilization	$5.50	SY
59014	Reworking Lime rock Base, 6"	$11.00	SY
59014	Optional Base, Base Group 06	$22.00	SY
59014	Turnout Construction	$22.00	SY
59014	Milling ExASPH PAVT, 3" Avg Depth	$9.00	SY
59014	ASPH Conc, PG76-22, PMA	$104.50	TN
59014	Miscellaneous Asphalt Pavement	$125.00	TN

Stormwater System Costs			
Project Number	**Project Description**	**Cost Estimates**	**Unit**
32020	Erosion and Sedimentation Control	$1.00	LS
32020	Excavation, Embankment, and Grading	$1.00	LS
32020	Washed Gravel 6" Thick	$150.00	SY
32020	Sodding	$100.00	SY
32020	Fence Type B 6' High Vinyl Coated Chain Link	$100.00	LF
32020	Fence Gate Type B Double Swing 16" Wide Opening 6' High	$1,500.00	EA
6240	Construction of storm sewers, grading and sodding of swales, approximately 54 drainage structures, 3,954 LF of reinforced concrete pipe ranging from 15" to 36in, 2,825 LF of reinforced concrete pipe French drains, stormwater pump station, tree relocations and all required pavement restoration.		
6240	Clear and grading of swales	$3.00	SY
6240	Clear and grading of swales	$3.25	SY
6240	Clear and grading of swales	$2.30	SY
6240	Clear and grading of swales	$2.50	SY
6240	Clear and grading of swales	$5.75	SY
6240	Clear and grading of swales	$7.70	SY
6240	Remove and dispose of existing drainage pipe	$10.00	LF
6240	Remove and dispose of existing drainage pipe	$6.00	LF
6240	Remove and dispose of existing drainage pipe	$17.00	LF
6240	Remove and dispose of existing drainage pipe	$10.00	LF
6240	Remove and dispose of existing drainage pipe	$7.00	LF
6240	Remove and dispose of existing drainage pipe	$15.70	LF
6240	Remove and dispose of existing concrete curbing	$5.00	LF
6240	Remove and dispose of existing concrete curbing	$4.00	LF
6240	Remove and dispose of existing concrete curbing	$33.00	LF
6240	Remove and dispose of existing concrete curbing	$3.20	LF
6240	Remove and dispose of existing concrete curbing	$5.00	LF
6240	Remove and dispose of existing concrete curbing	$8.80	LF
6240	Remove and dispose of Existing concrete aprons	$18.00	SY
6240	Remove and dispose of Existing concrete aprons	$12.00	SY
6240	Remove and dispose of Existing concrete aprons	$16.00	SY
6240	Remove and dispose of Existing concrete aprons	$85.00	SY

Stormwater System Costs			
Project Number	Project Description	Cost Estimates	Unit
6240	Remove and dispose of Existing concrete aprons	$6.50	SY
6240	Remove and dispose of Existing concrete aprons	$9.90	SY
6240	remove and dispose of existing guardrail	$8.00	LF
6240	remove and dispose of existing guardrail	$80.00	LF
6240	remove and dispose of existing guardrail	$27.00	LF
6240	remove and dispose of existing guardrail	$65.00	LF
6240	remove and dispose of existing guardrail	$75.50	LF
6240	remove and dispose of existing guardrail	$16.50	LF
6240	Furnish and Install 'Type C' Drainage Structure	$3,500.00	EA
6240	Furnish and Install 'Type C' Drainage Structure	$4,200.00	EA
6240	Furnish and Install 'Type C' Drainage Structure	$3,400.00	EA
6240	Furnish and Install 'Type C' Drainage Structure	$3,388.00	EA
6240	Furnish and Install 'Type C' Drainage Structure	$5,050.00	EA
6240	Furnish and Install 'Type C' Drainage Structure	$2,889.00	EA
6240	Furnish and Install 48" Drainage Catch Basin	$4,000.00	EA
6240	Furnish and Install 48" Drainage Catch Basin	$4,900.00	EA
6240	Furnish and Install 48" Drainage Catch Basin	$4,100.00	EA
6240	Furnish and Install 48" Drainage Catch Basin	$4,590.00	EA
6240	Furnish and Install 48" Drainage Catch Basin	$3,670.00	EA
6240	Furnish and Install 48" Drainage Catch Basin	$3,797.00	EA
6240	Furnish and install 60" Drainage Catch basin	$4,500.00	EA
6240	Furnish and install 60" Drainage Catch basin	$6,200.00	EA
6240	Furnish and install 60" Drainage Catch basin	$5,300.00	EA
6240	Furnish and install 60" Drainage Catch basin	$4,869.00	EA
6240	Furnish and install 60" Drainage Catch basin	$4,610.00	EA
6240	Furnish and install 60" Drainage Catch basin	$4,403.00	EA
6240	Furnish and install 48" X 48" Drainage Catch basin	$5,000.00	EA
6240	Furnish and install 48" X 48" Drainage Catch basin	$5,500.00	EA
6240	Furnish and install 48" X 48" Drainage Catch basin	$5,000.00	EA
6240	Furnish and install 48" X 48" Drainage Catch basin	$4,942.00	EA

Stormwater System Costs			
Project Number	Project Description	Cost Estimates	Unit
6240	Furnish and install 48" X 48" Drainage Catch basin	$3,670.00	EA
6240	Furnish and install 48" X 48" Drainage Catch basin	$4,324.00	EA
6240	Furnish and Install 48" Drainage Catch Basin	$4,000.00	EA
6240	Furnish and Install 48" Drainage Catch Basin	$5,225.00	EA
6240	Furnish and Install 48" Drainage Catch Basin	$4,300.00	EA
6240	Furnish and Install 48" Drainage Catch Basin	$4,323.00	EA
6240	Furnish and Install 48" Drainage Catch Basin	$3,455.00	EA
6240	Furnish and Install 48" Drainage Catch Basin	$4,324.00	EA
6240	Furnish and Install 60" Drainage Catch Basin	$6,000.00	EA
6240	Furnish and Install 60" Drainage Catch Basin	$6,500.00	EA
6240	Furnish and Install 60" Drainage Catch Basin	$5,000.00	EA
6240	Furnish and Install 60" Drainage Catch Basin	$6,145.00	EA
6240	Furnish and Install 60" Drainage Catch Basin	$4,370.00	EA
6240	Furnish and Install 60" Drainage Catch Basin	$4,950.00	EA
6240	Furnish and install 15" RCP Drainage Pipe	$64.00	LF
6240	Furnish and install 15" RCP Drainage Pipe	$45.00	LF
6240	Furnish and install 15" RCP Drainage Pipe	$64.00	LF
6240	Furnish and install 15" RCP Drainage Pipe	$111.00	LF
6240	Furnish and install 15" RCP Drainage Pipe	$90.20	LF
6240	Furnish and install 15" RCP Drainage Pipe	$97.30	LF
6240	Furnish and install 18" RCP Drainage Pipe	$64.00	LF
6240	Furnish and install 18" RCP Drainage Pipe	$50.00	LF
6240	Furnish and install 18" RCP Drainage Pipe	$79.00	LF
6240	Furnish and install 18" RCP Drainage Pipe	$76.00	LF
6240	Furnish and install 18" RCP Drainage Pipe	$83.30	LF
6240	Furnish and install 18" RCP Drainage Pipe	$70.60	LF
6240	Furnish and install 24" RCP Drainage Pipe	$75.00	LF
6240	Furnish and install 24" RCP Drainage Pipe	$65.00	LF
6240	Furnish and install 24" RCP Drainage Pipe	$98.00	LF
6240	Furnish and install 24" RCP Drainage Pipe	$96.00	LF

Stormwater System Costs			
Project Number	**Project Description**	**Cost Estimates**	**Unit**
6240	Furnish and install 24" RCP Drainage Pipe	$111.10	LF
6240	Furnish and install 24" RCP Drainage Pipe	$84.50	LF
6240	Furnish and install 30" RCP Drainage Pipe	$95.00	LF
6240	Furnish and install 30" RCP Drainage Pipe	$80.00	LF
6240	Furnish and install 30" RCP Drainage Pipe	$308.00	LF
6240	Furnish and install 30" RCP Drainage Pipe	$116.00	LF
6240	Furnish and install 30" RCP Drainage Pipe	$250.00	LF
6240	Furnish and install 30" RCP Drainage Pipe	$162.00	LF
6240	Furnish and install 36" RCP Drainage Pipe	$120.00	LF
6240	Furnish and install 36" RCP Drainage Pipe	$95.00	LF
6240	Furnish and install 36" RCP Drainage Pipe	$138.00	LF
6240	Furnish and install 36" RCP Drainage Pipe	$142.00	LF
6240	Furnish and install 36" RCP Drainage Pipe	$176.40	LF
6240	Furnish and install 36" RCP Drainage Pipe	$125.10	LF
6240	Furnish and Install 24" Tideflex Backflow Device	$16,252.57	EA
6240	Furnish and Install 24" Tideflex Backflow Device	$8,000.00	EA
6240	Furnish and Install 24" Tideflex Backflow Device	$16,000.00	EA
6240	Furnish and Install 24" Tideflex Backflow Device	$15,463.00	EA
6240	Furnish and Install 24" Tideflex Backflow Device	$16,750.00	EA
6240	Furnish and Install 24" Tideflex Backflow Device	$12,952.00	EA
6240	Furnish and Install 36" Tideflex Backflow Device	$25,439.06	EA
6240	Furnish and Install 36" Tideflex Backflow Device	$12,000.00	EA
6240	Furnish and Install 36" Tideflex Backflow Device	$24,283.00	EA
6240	Furnish and Install 36" Tideflex Backflow Device	$24,420.00	EA
6240	Furnish and Install 36" Tideflex Backflow Device	$27,000.00	EA
6240	Furnish and Install 36" Tideflex Backflow Device	$22,038.00	EA
6240	Furnish and install pumps, components, and assembly (pump station)	$342,541.00	LS
6240	Furnish and install pumps, components, and assembly (pump station)	$125,000.00	LS
6240	Furnish and install pumps, components, and assembly (pump station)	$146,000.00	LS
6240	Furnish and install pumps, components, and assembly (pump station)	$219,432.00	LS

Stormwater System Costs			
Project Number	**Project Description**	**Cost Estimates**	**Unit**
6240	Furnish and install pumps, components, and assembly (pump station)	$218,600.00	LS
6240	Furnish and install pumps, components, and assembly (pump station)	$349,800.00	LS
6240	Clean existing drainage system	$5,000.00	LS
6240	Clean existing drainage system	$7,500.00	LS
6240	Clean existing drainage system	$67,000.00	LS
6240	Clean existing drainage system	$16,628.00	LS
6240	Clean existing drainage system	$33,500.00	LS
6240	Clean existing drainage system	$24,646.00	LS
6240	RTU Telemetry system and ROHN tower/antenna	$27,500.00	LS
6240	RTU Telemetry system and ROHN tower/antenna	$48,000.00	LS
6240	RTU Telemetry system and ROHN tower/antenna	$21,000.00	LS
6240	RTU Telemetry system and ROHN tower/antenna	$15,000.00	LS
6240	RTU Telemetry system and ROHN tower/antenna	$8,700.00	LS
6240	RTU Telemetry system and ROHN tower/antenna	$16,500.00	LS
6240	Pump Station Control Panel	$16,500.00	LS
6240	Pump Station Control Panel	$35,000.00	LS
6240	Pump Station Control Panel	$33,000.00	LS
6240	Pump Station Control Panel	$82,000.00	LS
6240	Pump Station Control Panel	$111,750.00	LS
6240	Pump Station Control Panel	$136,400.00	LS
6240	Field Instruments (floats, level instruments)	$5,500.00	LS
6240	Field Instruments (floats, level instruments)	$18,500.00	LS
6240	Field Instruments (floats, level instruments)	$10,500.00	LS
6240	Field Instruments (floats, level instruments)	$6,000.00	LS
6240	Field Instruments (floats, level instruments)	$8,300.00	LS
6240	Field Instruments (floats, level instruments)	$6,600.00	LS
6240	Programing PLC & SCADA	$23,016.40	LS
6240	Programing PLC & SCADA	$21,500.00	LS
6240	Programing PLC & SCADA	$12,500.00	LS
6240	Programing PLC & SCADA	$12,000.00	LS

Stormwater System Costs			
Project Number	**Project Description**	**Cost Estimates**	**Unit**
6240	Programing PLC & SCADA	$22,500.00	LS
6240	Programing PLC & SCADA	$13,200.00	LS
6240	Asphalt Aprons	$200.00	EA
6240	Asphalt Aprons	$14.00	EA
6240	Asphalt Aprons	$850.00	EA
6240	Asphalt Aprons	$762.00	EA
6240	Asphalt Aprons	$345.50	EA
6240	Asphalt Aprons	$644.00	EA
6240	Concrete Aprons	$250.00	EA
6240	Concrete Aprons	$800.00	EA
6240	Concrete Aprons	$760.00	EA
6240	Concrete Aprons	$662.00	EA
6240	Concrete Aprons	$682.70	EA
6240	Concrete Aprons	$550.00	EA
50627	Valparaiso Drainage Improvements		
50627	Prevention, control and abatement of erosion and water pollution	$8,500.00	LS
50627	Pond Excavation (1615 CY)	$6.00	CY
50627	Ditch Excavation (648 CY)	$8.00	CY
50627	Pipe Culvert (CONC.) (ROUND)(15"SS)	$25.00	LF
50627	Pipe Culvert (CONC.) (ROUND)(18"SS)	$28.00	LF
50627	Pipe Culvert (CONC.) (ROUND)(24"SS)	$34.00	LF
50627	Fencing, Type B, 6' HT, W/Vinyl Coat	$30.00	LF
50627	Riprap Rubble	$70.00	SY
41033	Bradenton Stormwater Management Facilities. 12th and 14th Ave Bridge Replacement and 20th Street Drainage improvements by demolishing, moving and replacing all utilities on 20th St. W and 12th Ave West and replacing 12th Ave and 14th Ave bridges.	Lacking enough details to gain beneficial cost estimates.	
6120	Refurbish the existing Meadowbrook drainage pump station to include replacement of the existing pump/intake/motor assembly with new and specified appurtenances, upgrading the interior mounted controls and associated electric system, replacement of drainage force main from the pump station to the 90* turn and lining of the remaining force main wot the outfall replacing the backflow prevention device on the outfall remove and replace 3 storm culverts with new headwalls at the outfall into the lake and remove and replace parking lot storm culvert including headwall modifications		

Stormwater System Costs			
Project Number	**Project Description**	**Cost Estimates**	**Unit**
6120	Pump station complete install and ready for operation including sitework, erosion control and restoration, building and site improvements	$25,000.00	LS
6120	Pump station complete install and ready for operation including sitework, erosion control and restoration, building and site improvements	$13,161.00	LS
6120	Pump station complete install and ready for operation including sitework, erosion control and restoration, building and site improvements	$76,650.00	LS
6120	Pump station complete install and ready for operation including sitework, erosion control and restoration, building and site improvements	$36,000.00	LS
6120	Pump station complete install and ready for operation including sitework, erosion control and restoration, building and site improvements	$55,000.00	LS
6120	Point repair of existing 42" HDPE and 36" CAP drainage pipe	$30,000.00	LS
36083	Water and Stormwater System Improvements		
36083	Tie into Existing Inlet	$2,000.00	EA
36083	15 SD Cross Drain	$115.00	LF
36083	30 SD Cross Drain	$139.50	LF
36083	12 SD Side Drain	$112.00	LF
36083	15 SD Side Drain	$115.00	LF
36083	30 SD Side Drain	$139.50	LF
36083	Type C Drainage Inlet	$3,210.00	EA
36083	Type E Drainage Inlet	$4,040.00	EA
36083	Type G Drainage Inlet	$4,960.00	EA
36083	Type J Drainage Inlet	$17,430.00	EA
36083	Baffle Box	$62,900.00	EA
36083	Seawall Replacement	$775.00	LF
36083	Seawall Installation	$775.00	LF
36041	Gateway Services Community Development District Stormwater Management	Lacking enough details to gain beneficial cost estimates.	
50141	48" RCP	$69.30	LF
50141	5'x5' type J Storm Manhole up to' Depth	$1,620.00	EA
50141	Type c storm inlet	$765.00	EA
35094	Tavares SW TF Ruby Street Underground Service Conversions; cut and cap weather-head above roofline, converted meter-base from overhead to underground	Project about moving electrical lines not relevant to SW	

Stormwater BMPs,
SWPPP and Inspection
Costs

Stormwater BMPs, SWPPP, Inspection Costs			
Description	**Cost Estimates**	**Unit**	**Source**
Silt Fence	$1.96	Linear Foot	**
Silt Fence	$6.00	Linear Foot	USEPA 1993
Silt Fence	$2.30-$4.50	Linear Foot	SWRPC 1991
Rolled Erosion Control/ Artificial Coverings	$3.31	Square Yard	**
Temporary Slope Drain / Runoff Control Structure	$25.97	Linear Foot	**
Sediment Basin / Containment System (10 acre treatment capacity)	$3,496.13	Each	**
Sediment Traps	$1,100	Acre of Drainage	USEPA 1993
Sediment Basin / Containment System Cleanout	$1,850.28	Each	**
Floating Turbidity Barrier	$13.27	Linear Foot	**
Soil Tracking Prevention Device	$2,606.03	Each	**
Street Sweeper	$300.00	Per Day	**
Curb Inlet Protection System	$110.57	Each	**
Drop Inlet protection	$42.80	Each	(Avg of options on BMPStore.com (2020))
Storm drain Inlet protection	$100	Per Inlet	USEPA 1993
Check Dams	$100	Per Dam	USEPA 1992
Temporary Diversion Dikes-Earth Dike	$162-$500	Linear Foot	WI Regional Planning Commission 1991
Temporary Diversion Berms	$15-$55	Linear Foot	WI Regional Planning Commission 1991
Temporary Small Dike	$6.50	Linear Foot	CASQA
Temporary Large Dike	$2.50	Cubic Yard of Earth	CASQA 2003
Riprap non grouted	$35-$50	Per Square Yard	USEPA 1993
Riprap grouted	$45-$60	Per Square Yard	USEPA 1993
Hydroseeding	$2,000.00	Per Acre	**
Mulching	$800-$3,500	Per Acre	USEPA 1993
Seed and Mulching	$1,500	Per Acre	USEPA 1993
Sod	$14,250.00	Per Acre	**
Sod	$1.10	Per Square Foot	USEPA 1993
Geotextiles	$10.00	Per Square Yard	SWRCP 1991
Dewatering Bag	$45.00	Each	BMPStore.com (2020)
Oil Water Separator	$1,000.00	Each	**
Auto Fluid Drip Pan (~10-gal Capacity)	$100.00	Each	**
Oil Absorbent Mat	$1.00	Per Square Foot	**
Secondary Containment for 55 Gallon Drum	$85.00	Each	**
Secondary Containment for Chemical Tote	$1,059.00	Each	**
Tarp Cover for a Roll off Dumpster	$150.00	Each	**

Stormwater BMPs, SWPPP, Inspection Costs			
Description	**Cost Estimates**	**Unit**	**Source**
Blue Tarp 16-20' (for covering miscellaneous)	$15.00	Each	**
HPDE Lid for Commercial Dumpster	$100.00	Each	**
Vehicle Wash Containment Kit for Commercial Vehicles	$2,200.00	Each	**
Sandblasting/Painting Containment Curtains	$140.00	Linear Foot	**
Baffle Box Cleanout	$450.00	Each	**
Portable Toilet Secondary Containment	$150.00	Each	**
Weekly CGP Inspection	$13.50	Per Acre	**
SWPPP Development	$6,000.00	N/A	**
SWPPP Update/amendment CGP	$545.45	Per Section Needing Updating	***
SWPPP Update/amendment MSGP	$1,500	Per Section Needing Updating	***
Quarterly Visual Monitoring	$16.80	Per hour	Indeed.com*
Annual Comprehensive Site Evaluation	$16.80	Per hour	Indeed.com*
Routine MSGP Facility Inspection	$16.80	Per hour	Indeed.com*

*Salary information comes from 1,768 data points collected directly from employees, users, and past and present job advertisements on Indeed in the past 36 months (data pulled on 12/14/2020 specific to Florida Salaries).

** Data collected from public records of projects completed by Florida Department of Transportation and Department of Environmental Protection.

*** SWPPP Update and amendment CGP cost estimated based on the total cost of SWPPP development divided by the number of permit required sections.

Labor Costs

Labor Costs			
Project Number	**Project Description**	**Cost Estimates**	**Unit**
13030	Asphalt Paver	$15.00	hr.
13030	Backhoe Loader Combo	$16.10	hr.
53033	Backhoe/excavator	$15.00	hr.
53033	Brush, Roller, & Spray Painter	$20.70	hr.
53033	Bulldozer	$15.00	hr.
13030	Carpenter	$23.35	hr.
48042	Cement Mason/Concrete Finisher	$23.01	hr.
52063	Common or general Laborer	$19.56	hr.
48042	Crane Operator	$30.73	hr.
13030	Crane Operator (All tower cranes must have two operators) Mobile, Rail, Climbers, static-mount, All cranes with boom length 150 feet and over, friction, hydro, electric.	$28.32	hr.
52063	Drill Operator	$26.32	hr.
13030	Electrician	$25.18	hr.
13030	Excavator	$21.16	hr.
13030	Form Worker	$15.00	hr.
13030	Grade checker	$17.20	hr.
48042	Grade/Blade Operator	$16.00	hr.
13030	Landscape worker	$15.00	hr.
13030	Loader	$29.67	hr.
13030	Mechanic	$29.50	hr.
53033	Millwright	$27.78	hr.
53033	Oiler Operator	$22.91	hr.
13030	Pipe layer	$21.19	hr.
13030	Power tool operator (hand held Drills/saws, jackhammer and power saws only)	$15.00	hr.
13030	Roller Operator	$15.00	hr.
13030	Scraper	$15.00	hr.
13030	Structural Ironworker	$23.59	hr.
13030	Track hoe	$20.92	hr.
13030	Tractor	$15.00	hr.
13030	Truck driver 4 Axle Truck	$15.00	hr.
13030	Truck Driver Includes Dump Truck	$15.00	hr.
13030	Truck Driver Lowboy Truck	$15.00	hr.
13030	Truck Driver Off the Road Truck	$15.00	hr.
*	Class C Licensed Wastewater Operator AWWA FL 50th %	$40,668	Yr.
*	Class B Licensed Wastewater Operator AWWA FL 50th %	$49,336	Yr.
*	Class A Licensed Wastewater Operator AWWA FL 50th %	$58,520	Yr.

* Data received from American Water Works Association (AWWA) Compensation Survey Summary. AWWA data based on wages of Florida A-C licensed operators in 2017.

Chemistry Sample Costs

Chemistry Sample Costs					
Group ID	**Test Description**	**Sample Cost**	**Matrix**	**Analysis Group**	**Method**
Chemistry	Low level PAH analyses in tissue matrices by GC/MS/MS	$378.00	Tissue	BNA-Tissue	EPA 8270D
Chemistry	Low level PAH analyses in tissue matrices by GC/MS-SIM	$378.00	Tissue	BNA-Tissue	EPA 8270D
Chemistry	Qualitative Analysis using GC/MS	$173.25	Soil/Sediment/Waste	BNA-Waste	EPA 8270D
Chemistry	Semi-volatile organic pollutants, excluding PCBs and Toxaphene, on solid surfaces	$173.25	Soil/Sediment/Waste	BNA-Waste	EPA 8270D
Chemistry	Semi-volatile CWA compounds in wipes by full scan GC/MS	$173.25	Soil/Sediment/Waste	BNA-Waste	CWA 8270D/3570
Chemistry	Semi-volatile CWA compounds in wipes by full scan GC/MS	$173.25	Soil/Sediment/Waste	BNA-Waste	CWA 8270D/3570
Chemistry	Semi-volatile CWA compounds in wipes by GC/MS/SIM	$173.25	Soil/Sediment/Waste	BNA-Waste	CWA 8270D/3570
Chemistry	Semi-volatile CWA compounds in wipes by GC 1D/TOF MS	$225.00	Soil/Sediment/Waste	BNA-Waste	CWA 8270D/3570
Chemistry	Semi-volatile CWA compounds in wipes by GC 2D/TOF MS	$277.00	Soil/Sediment/Waste	BNA-Waste	CWA 8270D/3570
Chemistry	Total recoverable petroleum hydrocarbons in wipe samples by Florida Pro	$115.50	Soil/Sediment/Waste	BNA-Waste	FL-PRO
Chemistry	Semi-volatile organic pollutants, excluding PCBs and Toxaphene, in soil/sediments by GC/MS.	$173.25	Soil/Sediment/Waste	BNA-Waste	EPA 8270D
Chemistry	Semi-volatile CWA compounds in soil/sediment by full scan GC/MS	$173.25	Soil/Sediment/Waste	BNA-Waste	CWA 8270D/3545A
Chemistry	Semi-volatile CWA compounds in soil/sediment by GC/MS SIM	$173.25	Soil/Sediment/Waste	BNA-Waste	CWA 8270D/3545A
Chemistry	Semi-volatile CWA compounds in soil/sediment by GC 1D/TOF MS	$225.00	Soil/Sediment/Waste	BNA-Waste	CWA 8270D/3545A
Chemistry	Semi-volatile CWA compounds in soil/sediment by GC 2D/TOF MS	$277.00	Soil/Sediment/Waste	BNA-Waste	CWA 8270D/3545A
Chemistry	Total recoverable petroleum hydrocarbons in sediment/soil samples by GC-FID.	$115.50	Soil/Sediment/Waste	BNA-Waste	FL-PRO
Chemistry	Low level PAH analyses in sediment matrices by GC/MS.	$173.25	Soil/Sediment/Waste	BNA-Waste	EPA 8270D
Chemistry	PAHs/Homologues and petroleum profile analyses in sediment matrices by GC/MS.	$1,039.50	Soil/Sediment/Waste	BNA-Waste	EPA 8270D
Chemistry	Low level analysis of PAHs/Homologues in sediment matrices by GC/MS.	$346.50	Soil/Sediment/Waste	BNA-Waste	EPA 8270D
Chemistry	PAH and Petroleum Profile Analyses in Sediment Matrices by GC/MS.	$866.25	Soil/Sediment/Waste	BNA-Waste	EPA 8270D
Chemistry	Low level PAH analyses in sediment matrices by GC/MS using SIMS	$190.00	Soil/Sediment/Waste	BNA-Waste	EPA 8270D
Chemistry	SPLP for semi-volatile organic pollutants by GC/MS.	$210.00	Soil/Sediment/Waste	BNA-Waste	EPA 1312/ 625/8270
Chemistry	Low level PAH analyses in SPLP extracts by GC/MS.	$210.00	Soil/Sediment/Waste	BNA-Waste	EPA 1312/ 625/8270

Chemistry Sample Costs					
Group ID	**Test Description**	**Sample Cost**	**Matrix**	**Analysis Group**	**Method**
Chemistry	TCLP for Semi-volatile organic pollutants by GC/MS.	$210.00	Soil/Sediment/Waste	BNA-Waste	EPA 1311/ 625/8270
Chemistry	Semi-volatile organic pollutants, excluding PCBs and Toxaphene, in waste matrices by GC/MS.	$183.75	Soil/Sediment/Waste	BNA-Waste	EPA 8270D
Chemistry	Total recoverable petroleum hydrocarbons in waste samples by Florida Pro, reported as wet wt.	$115.50	Soil/Sediment/Waste	BNA-Waste	FL-PRO
Chemistry	PAH's in waste matrices by GC/MS.	$162.75	Soil/Sediment/Waste	BNA-Waste	EPA 8270D
Chemistry	PAH and Petroleum Profile in Waste Matrices by GC/MS.	$813.75	Soil/Sediment/Waste	BNA-Waste	EPA 8270D
Chemistry	EPA Method 625 with 3510C prep, Semi-volatile organic pollutants including PAHs, excluding PCBs and Toxaphene, in water matrices by GC/MS.	$173.25	Water	BNA-Water	EPA 625
Chemistry	EPA Method 625 (NPDES Compliance Method) Semi-volatile organic pollutants including PAHs, excluding PCBs and Toxaphene, in water matrices by GC/MS.	$236.25	Water	BNA-Water	EPA 625
Chemistry	EPA Method 8270, Semi-volatile organic pollutants including PAHs, excluding PCBs and Toxaphene, in water matrices by GC/MS.	$173.25	Water	BNA-Water	EPA 8270D
Chemistry	Semi-volatile CWA compounds in water by full scan GC/MS	$173.25	Water	BNA-Water	CWA 8270D/3511
Chemistry	Semi-volatile CWA compounds in water by GC/MS/SIM	$173.25	Water	BNA-Water	CWA 8270D/3511
Chemistry	Semi-volatile CWA compounds in water by GC 1D/TOF MS	$225.00	Water	BNA-Water	CWA 8270D/3511
Chemistry	Semi-volatile CWA compounds in water by GC 2D/TOF MS	$277.00	Water	BNA-Water	CWA 8270D/3511
Chemistry	Total recoverable petroleum hydrocarbons in water samples by GC-FID.	$115.50	Water	BNA-Water	FL-PRO
Chemistry	Low level PAH analyses in water matrices by GC/MS.	$173.25	Water	BNA-Water	EPA 625
Chemistry	PAH and Petroleum Profile Analyses in Water Matrices by GC/MS	$866.25	Water	BNA-Water	EPA 8270D
Chemistry	Low level PAH analyses in water matrices by GC/MS.	$173.25	Water	BNA-Water	EPA 8270D
Chemistry	Low level PAH analyses in water matrices by GC/MS using SIM.	$173.25	Water	BNA-Water	EPA 8270
Chemistry	Analysis of organonitrogen and phosphorus pesticides on solid surfaces by GC/NPD.	$147.00	Soil/Sediment/Waste	GC-Soil	EPA 8141A
Chemistry	Chlordane and Toxaphene in soil by GC/MS with Negative Chemical Ionization	$90.00	Soil/Sediment/Waste	GC-Soil	EPA 8276
Chemistry	PCBs (ultra trace level) in soil matrices by GC/MS/MS	$100.00	Soil/Sediment/Waste	GC-Soil	EPA 8270D
Chemistry	Organonitrogen and phosphorus pesticides in sediment matrices by GC/NPD.	$152.25	Soil/Sediment/Waste	GC-Soil	EPA 8141B
Chemistry	Organochlorine pesticides in SPLP extracts by GC/ECD.	$183.75	Soil/Sediment/Waste	GC-Soil	EPA 1312/8081
Chemistry	Organonitrogen and phosphorus pesticides in SPLP extracts by GC/NPD.	$194.25	Soil/Sediment/Waste	GC-Soil	EPA 1312/8141
Chemistry	Organochlorine pesticides (ultra trace) in soil matrices by GC/MS/MS	$195.00	Soil/Sediment/Waste	GC-Soil	EPA 8270D

Chemistry Sample Costs					
Group ID	**Test Description**	**Sample Cost**	**Matrix**	**Analysis Group**	**Method**
Chemistry	Organochlorine pesticides in TCLP extracts by GC/ECD.	$183.75	Soil/Sediment/Waste	GC-Soil	EPA 1311/ 8081
Chemistry	Organonitrogen and phosphorus pesticides in liquid and solid waste matrices by GC/NPD.	$194.25	Soil/Sediment/Waste	GC-Soil	EPA 8141
Chemistry	Chlordane and Toxaphene in solid and liquid waste matrices by GC/MS with Negative Chemical Ionization	$90.00	Soil/Sediment/Waste	GC-Soil	EPA 8276
Chemistry	PCBs (ultra trace level) in solid or liquid waste matrices by GC/MS/MS	$100.00	Soil/Sediment/Waste	GC-Soil	EPA 8270D
Chemistry	Organochlorine pesticides (ultra trace) in solid or liquid waste matrices by GC/MS/MS	$195.00	Soil/Sediment/Waste	GC-Soil	EPA 8270D
Chemistry	Toxaphene in Animal Tissue by GC/MS with Negative Chemical Ionization	$90.00	Tissue	GC-Tissue	EPA 8276
Chemistry	Organochlorine pesticides and PCBs in animal tissues by GC/MS/MS	$325.00	Tissue	GC-Tissue	EPA 8270D
Chemistry	PCBs in animal tissues by GC/MS/MS	$200.00	Tissue	GC-Tissue	EPA 8270D
Chemistry	Organonitrogen and phosphorus pesticides in fish tissue by GC/NPD.	$304.50	Tissue	GC-Tissue	EPA 8141
Chemistry	Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization	$100.00	Water	GC-Water	EPA 8276
Chemistry	Dieldrin (ultra low level) in water matrices by GC/MS/MS	$195.00	Water	GC-Water	EPA 8270D
Chemistry	Organonitrogen and phosphorus pesticides (low level) in water matrices by GC/NPD.	$173.25	Water	GC-Water	DEP SOP: GC-012-3 (based on EPA 614, 619, 622, 633 and 507)
Chemistry	Organochlorine pesticides (low levels) in water matrices by GC/ECD.	$231.00	Water	GC-Water	DEP SOP: GC-011-5 (based on EPA 608 and 617)
Chemistry	PCBs in water matrices by GC/ECD.	$84.00	Water	GC-Water	EPA 8082A
Chemistry	PCBs in water matrices by GC/MS-SIM	$100.00	Water	GC-Water	USGS-O-1126-95
Chemistry	PCBs in water matrices by GC/MS-SIM	$100.00	Water	GC-Water	EPA 8270D
Chemistry	Organochlorine pesticides in water matrices by GC/MS-SIM	$231.00	Water	GC-Water	USGS-O-1126-95
Chemistry	Organochlorine pesticides in water matrices by GC/MS-SIM	$231.00	Water	GC-Water	EPA 8270D
Chemistry	Organonitrogen and phosphorus pesticides in water matrices by GC/NPD.	$126.00	Water	GC-Water	EPA 8141B
Chemistry	Organochlorine pesticides (ultra low level) in water matrices by GC/MS/MS	$195.00	Water	GC-Water	EPA 8270D
Chemistry	Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS	$260.00	Water	GC-Water	EPA 8270D

Chemistry Sample Costs					
Group ID	**Test Description**	**Sample Cost**	**Matrix**	**Analysis Group**	**Method**
Chemistry	Organochlorine pesticides in water matrices by GC/ECD.	$105.00	Water	GC-Water	EPA 8081B
Chemistry	Analysis of other matrices by HPLC/MS/MS	$136.50	Soil/Sediment/Waste	LC-Soil	EPA 8321B
Chemistry	Chlorinated (phenoxy acid) herbicides in sediment matrices by HPLC/MS/MS	$152.25	Soil/Sediment/Waste	LC-Soil	DEP SOP: LC-001-2 (based on EPA 8321B)
Chemistry	Chlorinated (phenoxy acid) herbicides on solid surfaces by HPLC/MS/MS.	$136.50	Soil/Sediment/Waste	LC-Soil	DEP SOP: LC-001-2 (based on EPA 8321B)
Chemistry	Carbamates in sediment matrices by HPLC/MS/MS	$138.60	Soil/Sediment/Waste	LC-Soil	DEP SOP LC-001-2 (based on EPA 8321B)
Chemistry	Chlorinated (phenoxy acid) herbicides in SPLP samples by HPLC/MS/MS	$194.25	Soil/Sediment/Waste	LC-Soil	EPA 1312/DEP SOP LC-001-2 (based on EPA 8321B)
Chemistry	Urea herbicides in sediment/solid matrices by HPLC/MS/MS	$136.50	Soil/Sediment/Waste	LC-Soil	DEP SOP: LC-001-2 (based on EPA 8321B)
Chemistry	Chlorinated (phenoxy acid) herbicides in TCLP samples by HPLC/MS/MS	$194.25	Soil/Sediment/Waste	LC-Soil	EPA 1311/DEP SOP LC-001-2 (based on EPA 8321B)
Chemistry	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	$126.00	Water	LC-Water	EPA 8321B
Chemistry	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS	$150.00	Water	LC-Water	USGS O-2060-01
Chemistry	Carbamates in water matrices by HPLC/MS/MS	$126.00	Water	LC-Water	EPA 8321B
Chemistry	Carbamates in water matrices by HPLC/MS/MS	$126.00	Water	LC-Water	EPA 8321B
Chemistry	Endothall in water matrices by HPLC/MS/MS	$120.00	Water	LC-Water	EPA 8321B
Chemistry	Glyphosate in water matrices by HPLC/MS/MS	$126.00	Water	LC-Water	EPA 8321B
Chemistry	Water soluble organic compounds by HPLC/MS/MS	$80.00	Water	LC-Water	EPA 8321B
Chemistry	Microcystins in water matrices by HPLC/MS/MS	$126.00	Water	LC-Water	EPA 8321B
Chemistry	Personal Care Products and pesticides in water matrices by HPLC/MS/MS	$126.00	Water	LC-Water	EPA 8321B
Chemistry	Diquat and paraquat in water matrices by HPLC/MS/MS	$105.00	Water	LC-Water	EPA 8321B
Chemistry	Pyraclostrobin in water matrices by HPLC/MS/MS	$126.00	Water	LC-Water	EPA 8321B
Chemistry	Quaternary ammonium compounds in water matrices by HPLC/MS/MS	$126.00	Water	LC-Water	EPA 8321B
Chemistry	Analysis of sucralose in water matrices by HPLC/MS/MS	$126.00	Water	LC-Water	EPA 8321B
Chemistry	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	$126.00	Water	LC-Water	EPA 8321B

Chemistry Sample Costs					
Group ID	**Test Description**	**Sample Cost**	**Matrix**	**Analysis Group**	**Method**
Chemistry	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS	$126.00	Water	LC-Water	USGS O-2060-01
Chemistry	Methylmercury in tissue samples using purge & trap with atomic fluorescence detection.	$173.25	Tissue	Mercury-Tissue	DEP SOP HG-003-2
Chemistry	Mercury in tissue samples using atomic fluorescence	$57.75	Tissue	Mercury-Tissue	DEP SOP: HG-007-1
Chemistry	Mercury in tissue samples using cold vapor AA spectroscopy.	$28.90	Tissue	Mercury-Tissue	DEP SOP: HG-006-3 (based on EPA 245.6)
Chemistry	Mercury in tissue samples using thermal decomposition, amalgamation and AA spectroscopy, reported as wet weight.	$28.90	Tissue	Mercury-Tissue	EPA 7473
Chemistry	Methylmercury in tissue and sediment samples using purge & trap with atomic fluorescence detection.	$173.25	Soil/Sediment/Waste	Mercury-Waste	DEP SOP HG-003-2
Chemistry	Mercury in solid samples using thermal decomposition, amalgamation and AA spectroscopy, reported as dry weight.	$28.90	Soil/Sediment/Waste	Mercury-Waste	EPA 7473
Chemistry	Mercury in SPLP extracts using cold vapor atomic fluorescence spectroscopy.	$122.00	Soil/Sediment/Waste	Mercury-Waste	EPA 1312/ 1631E
Chemistry	Mercury in SPLP samples using cold vapor AA spectroscopy.	$122.00	Soil/Sediment/Waste	Mercury-Waste	EPA 1312/ 245.1 Rev. 3.0
Chemistry	Mercury in TCLP samples using cold vapor AA spectroscopy.	$122.00	Soil/Sediment/Waste	Mercury-Waste	EPA 1311/ 245.1 Rev. 3.0
Chemistry	Mercury in TCLP samples using thermal decomposition, amalgamation, and AA spectroscopy.	$122.00	Soil/Sediment/Waste	Mercury-Waste	EPA 1311/7473
Chemistry	Mercury in waste samples using thermal decomposition, amalgamation and AA spectroscopy, reported as wet weight.	$28.90	Soil/Sediment/Waste	Mercury-Waste	EPA 7473
Chemistry	Mercury in waste samples using cold vapor AA spectroscopy.	$28.90	Soil/Sediment/Waste	Mercury-Waste	DEP SOP: HG-008-3
Chemistry	Methylmercury in aqueous samples using purge & trap with atomic fluorescence detection.	$173.25	Water	Mercury-Water	DEP SOP HG-005-2
Chemistry	Methylmercury in filtered aqueous samples using purge & trap with atomic fluorescence detection.	$173.25	Water	Mercury-Water	DEP SOP HG-005-2
Chemistry	Mercury in aqueous samples using cold vapor atomic fluorescence spectroscopy.	$57.75	Water	Mercury-Water	EPA 1631E
Chemistry	Mercury in filtered aqueous samples using cold vapor AF spectroscopy.	$57.75	Water	Mercury-Water	EPA 1631E
Chemistry	Mercury in aqueous samples using cold vapor AA spectroscopy.	$23.10	Water	Mercury-Water	EPA 245.1 Rev. 3.0
Chemistry	Mercury in filtered aqueous samples using cold vapor AA spectroscopy.	$23.10	Water	Mercury-Water	EPA 245.1 Rev. 3.0
Chemistry	Mercury in aqueous samples using cold vapor AA spectroscopy.	$23.10	Water	Mercury-Water	EPA 7470A
Chemistry	Mercury in aqueous samples using thermal decomposition, amalgamation, and AA spectroscopy.	$23.10	Water	Mercury-Water	EPA 7473

Chemistry Sample Costs					
Group ID	**Test Description**	**Sample Cost**	**Matrix**	**Analysis Group**	**Method**
Chemistry	Mercury in filtered aqueous samples using thermal decomposition, amalgamation, and AA spectroscopy.	$23.10	Water	Mercury-Water	EPA 7473
Chemistry	Metals, total recoverable, on air filters using ICP emission spectroscopy.	C 10.50	Air	Metals-Air	EPA 6010C
Chemistry	Determination of Metals in Ambient Particulate Matter using ICP Mass Spectrometry	C 10.50	Air	Metals-Air	EQL-0710-192
Chemistry	Determination of Metals in Ambient Particulate Matter using ICP Mass Spectrometry	C 10.50	Air	Metals-Air	EPA IO-3.5
Chemistry	Percent solid of tissue samples - place holder test - not for reporting	$5.25	Tissue	Metals-Tissue	In-house (based on SM 2540 G)
Chemistry	Metals, total recoverable, in tissue samples using ICP emission spectroscopy.	C 10.50	Tissue	Metals-Tissue	EPA 6010C
Chemistry	Metals, total recoverable, in tissue samples using ICP mass spectroscopy.	C 10.50	Tissue	Metals-Tissue	EPA 6020A
Chemistry	Percent solid of sediment/soil sample	$5.25	Soil/Sediment/Waste	Metals-Waste	SM 2540 G (20th)
Chemistry	Metals, total recoverable, on solid surfaces using ICP emission spectroscopy.	C 10.50	Soil/Sediment/Waste	Metals-Waste	EPA 6010C
Chemistry	Metals, total recoverable, on solid surfaces using ICP mass spectrometry	C 10.50	Soil/Sediment/Waste	Metals-Waste	EPA 6020A
Chemistry	Metals, total recoverable, in solid samples using ICP emission spectroscopy.	C 10.50	Soil/Sediment/Waste	Metals-Waste	EPA 6010C
Chemistry	Metals, total recoverable, in solid samples using ICP mass spectrometry	C 10.50	Soil/Sediment/Waste	Metals-Waste	EPA 6020A
Chemistry	Total metals analysis in solid samples using acid digestion and ICP mass spectrometry	C 23.10	Soil/Sediment/Waste	Metals-Waste	EPA 6020A Total Metals
Chemistry	Total metals analysis in solid samples using acid digestion and ICP emission spectroscopy	C 23.10	Soil/Sediment/Waste	Metals-Waste	EPA 6010C Total Metals
Chemistry	Metals, total recoverable, in Synthetic Precipitation Leachate Procedure extract samples using ICP emission spectroscopy.	$121.45	Soil/Sediment/Waste	Metals-Waste	EPA 1312/6010C
Chemistry	Metals, total recoverable in SPLP extracts using ICP mass spectrometry	$121.45	Soil/Sediment/Waste	Metals-Waste	EPA 1312/6020A
Chemistry	Metals, total recoverable, in Toxicity Characteristic Leachate Procedure (TCLP) extract samples using ICP emission spectroscopy.	$121.45	Soil/Sediment/Waste	Metals-Waste	EPA 1311/ 6010C
Chemistry	Metals, total recoverable, in TCLP samples using ICP mass spectrometry	$121.45	Soil/Sediment/Waste	Metals-Waste	EPA 1311/ 6020A
Chemistry	Metals, total recoverable, in waste samples using ICP emission spectroscopy.	C 10.50	Soil/Sediment/Waste	Metals-Waste	EPA 6010C
Chemistry	Metals, total recoverable, in waste samples using ICP mass spectrometry	C 10.50	Soil/Sediment/Waste	Metals-Waste	EPA 6020A

Chemistry Sample Costs					
Group ID	**Test Description**	**Sample Cost**	**Matrix**	**Analysis Group**	**Method**
Chemistry	% water in waste matrices	$23.10	Soil/Sediment/Waste	Metals-Waste	EPA 9000
Chemistry	Flashpoint in aqueous matrices.	$23.10	Water	Metals-Water	EPA 1010A
Chemistry	Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3	$15.75	Water	Metals-Water	SM 2340B
Chemistry	Hardness by calculation, in dissolved aqueous matrices, reported as mg/L CaCO3	$15.75	Water	Metals-Water	SM 2340B
Chemistry	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects	C 7.90	Water	Metals-Water	EPA 200.7 Rev. 4.4
Chemistry	Metals, dissolved, in filtered aqueous samples using ICP emission spectroscopy.	C 7.90	Water	Metals-Water	EPA 200.7 Rev. 4.4
Chemistry	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects	C 7.90	Water	Metals-Water	EPA 200.8 Rev. 5.4
Chemistry	Metals, dissolved, in filtered, aqueous samples using ICP mass spectroscopy.	C 7.90	Water	Metals-Water	EPA 200.8 Rev. 5.4
Chemistry	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting RCRA Projects	C 7.90	Water	Metals-Water	EPA 6020A
Chemistry	Metals, dissolved, in filtered, aqueous samples using ICP mass spectroscopy.	C 7.90	Water	Metals-Water	EPA 6020A
Chemistry	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting RCRA Projects	C 7.90	Water	Metals-Water	EPA 6010C
Chemistry	Metals, dissolved, in filtered aqueous samples using ICP emission spectroscopy.	C 7.90	Water	Metals-Water	EPA 6010C
Chemistry	Silica in aqueous matrices as mg SiO2/L	C 7.90	Water	Metals-Water	EPA 200.7 Rev. 4.4
Chemistry	Silica, dissolved, filtered, aqueous matrices as mg SiO2/L	C 7.90	Water	Metals-Water	EPA 200.7 Rev. 4.4
Chemistry	Alkalinity in aqueous matrices as mg CaCO3/L	$9.45	Water	Nutrients-Liquid	SM 2320 B-97
Chemistry	Turbidity in aqueous matrices	$5.80	Water	Nutrients-Liquid	EPA 180.1 Rev. 2.0
Chemistry	Air equilibrated pH measurement in water samples.	$17.35	Water	Nutrients-Liquid	EPA 150.1, Air Equilibrated
Chemistry	% water in aqueous waste matrices	$23.10	Water	Nutrients-Liquid	EPA 9000
Chemistry	Bromide in aqueous matrices	$13.65	Water	Nutrients-Liquid	EPA 300.0
Chemistry	Bromide in filtered aqueous matrices	$13.65	Water	Nutrients-Liquid	EPA 300.0
Chemistry	Chloride in aqueous matrices	$13.65	Water	Nutrients-Liquid	EPA 300.0 Rev. 2.1
Chemistry	Chloride, dissolved, in filtered, aqueous matrices	$13.65	Water	Nutrients-Liquid	EPA 300.0 Rev. 2.1
Chemistry	Cyanide, total, in aqueous matrices	$46.20	Water	Nutrients-Liquid	EPA 335.4 Rev. 1.0
Chemistry	Cyanide, total, in aqueous matrices	$46.20	Water	Nutrients-Liquid	EPA 9012B

Chemistry Sample Costs					
Group ID	**Test Description**	**Sample Cost**	**Matrix**	**Analysis Group**	**Method**
Chemistry	True Color measured at 450 nm	$12.00	Water	Nutrients-Liquid	SM 2120 B
Chemistry	Specific Conductivity in aqueous matrices.	$5.80	Water	Nutrients-Liquid	EPA 120.1
Chemistry	Specific Conductivity in aqueous matrices.	$5.80	Water	Nutrients-Liquid	EPA 120.1
Chemistry	Dissolved Inorganic Carbon in filtered, aqueous matrices using combustion/IR	$27.85	Water	Nutrients-Liquid	SM 5310 W
Chemistry	Dissolved Nonpurgeable Organic Carbon in filtered, aqueous matrices	$13.65	Water	Nutrients-Liquid	SM 5310 B-00
Chemistry	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	$9.45	Water	Nutrients-Liquid	SM 4500 F-C-97
Chemistry	Fluoride, dissolved, in filtered aqueous matrices, without distillation (not valid for NPDES monitoring)	$9.45	Water	Nutrients-Liquid	SM 4500 F-C-97
Chemistry	Fluoride in aqueous matrices using ion chromatography	$13.65	Water	Nutrients-Liquid	EPA 300.0
Chemistry	Ammonia in aqueous matrices as mg N/L	$13.65	Water	Nutrients-Liquid	EPA 350.1 Rev. 2.0
Chemistry	Ammonia, dissolved, in filtered, aqueous matrices as mg N/L	$13.65	Water	Nutrients-Liquid	EPA 350.1 Rev. 2.0
Chemistry	Nitrite in aqueous matrices as mg N/L	$13.65	Water	Nutrients-Liquid	EPA 353.2 Rev. 2.0
Chemistry	Nitrite, dissolved, in filtered, aqueous matrices as mg N/L	$13.65	Water	Nutrients-Liquid	EPA 353.2 Rev. 2.0
Chemistry	Nitrite/Nitrate in aqueous matrices as mg N/L	$13.65	Water	Nutrients-Liquid	EPA 353.2 Rev. 2.0
Chemistry	Nitrite/Nitrate, dissolved, in filtered, aqueous matrices as mg N/L	$13.65	Water	Nutrients-Liquid	EPA 353.2 Rev. 2.0
Chemistry	Nitrate by calculation in aqueous matrices as mg N/L	$13.65	Water	Nutrients-Liquid	EPA 353.2 Rev. 2.0
Chemistry	Nitrate by calculation in filtered aqueous matrices as mg N/L	$13.65	Water	Nutrients-Liquid	EPA 353.2 Rev. 2.0
Chemistry	Nitrate in aqueous matrices as mg N/L	$13.65	Water	Nutrients-Liquid	EPA 300.0 Rev. 2.1
Chemistry	Nitrate, dissolved, in filtered aqueous matrices as mg N/L	$13.65	Water	Nutrients-Liquid	EPA 300.0 Rev. 2.1
Chemistry	pH measurement in water samples.	$5.80	Water	Nutrients-Liquid	SM 4500-H+ B-00
Chemistry	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L	$13.65	Water	Nutrients-Liquid	EPA 365.1 Rev. 2.0
Chemistry	Total Phosphorus in aqueous matrices as mg P/L	$21.00	Water	Nutrients-Liquid	EPA 365.1 Rev. 2.0
Chemistry	Total Phosphorus, dissolved, in filtered aqueous matrices as mg P/L	$21.00	Water	Nutrients-Liquid	EPA 365.1 Rev. 2.0
Chemistry	Sulfate in aqueous matrices	$13.65	Water	Nutrients-Liquid	EPA 300.0 Rev. 2.1

Chemistry Sample Costs					
Group ID	**Test Description**	**Sample Cost**	**Matrix**	**Analysis Group**	**Method**
Chemistry	Sulfate, dissolved, in filtered, aqueous matrices	$13.65	Water	Nutrients-Liquid	EPA 300.0 Rev. 2.1
Chemistry	Total Dissolved Solids in aqueous matrices	$7.90	Water	Nutrients-Liquid	SM 2540 C-97
Chemistry	Total Kjeldahl Nitrogen in aqueous matrices	$21.00	Water	Nutrients-Liquid	EPA 351.2 Rev. 2.0
Chemistry	Total Kjeldahl Nitrogen, dissolved, in filtered, aqueous matrices	$21.00	Water	Nutrients-Liquid	EPA 351.2 Rev. 2.0
Chemistry	Nonpurgeable Organic Carbon in aqueous matrices	$13.65	Water	Nutrients-Liquid	SM 5310 B-00
Chemistry	Total Solids in aqueous matrices	$7.90	Water	Nutrients-Liquid	SM 2540 B-97
Chemistry	Total Suspended Solids in aqueous matrices	$7.90	Water	Nutrients-Liquid	SM 2540 D-97
Chemistry	Calcium Carbonate in solid matrices as mg CaCO3/Kg, based on EPA 310.1	$28.90	Soil/Sediment/Waste	Nutrients-Solid	DEP-SOP-NU-021
Chemistry	Chloride, extractable, in solid matrices	$23.10	Soil/Sediment/Waste	Nutrients-Solid	EPA 300.0 mod.
Chemistry	Cyanide, total, in solid matrices	$57.75	Soil/Sediment/Waste	Nutrients-Solid	EPA 9012B
Chemistry	Analysis of melting point in solid matrices	$17.35	Soil/Sediment/Waste	Nutrients-Solid	Melting Point Analysis
Chemistry	Ammonia, extractable, in solid matrices as mg N/Kg	$23.10	Soil/Sediment/Waste	Nutrients-Solid	EPA 350.1 Mod.
Chemistry	Nitrite/Nitrate, extractable, in solid matrices as mg N/Kg	$23.10	Soil/Sediment/Waste	Nutrients-Solid	EPA 353.2 mod.
Chemistry	pH measurement for soil and waste matrices	$7.90	Soil/Sediment/Waste	Nutrients-Solid	EPA 9045D
Chemistry	Ortho-Phosphate, extractable, in solid matrices as mg P/Kg	$23.10	Soil/Sediment/Waste	Nutrients-Solid	EPA 365.1
Chemistry	Sulfate, extractable, in solid matrices	$23.10	Soil/Sediment/Waste	Nutrients-Solid	EPA 300.0 mod.
Chemistry	Total Kjeldahl Nitrogen in solid matrices	$34.65	Soil/Sediment/Waste	Nutrients-Solid	In-house (based on EPA 351.2)
Chemistry	Percent Carbon in solid matrices	$73.50	Soil/Sediment/Waste	Nutrients-Solid	DEP SOP: NU-076-1
Chemistry	Total Phosphorus in solid matrices	$34.65	Soil/Sediment/Waste	Nutrients-Solid	In-house (based on EPA 365.4)
Chemistry	Chloride in waste matrices	$13.65	Soil/Sediment/Waste	Nutrients-Solid	EPA 300.0
Chemistry	Cyanide, total, in waste matrices	$57.75	Soil/Sediment/Waste	Nutrients-Solid	EPA 9012B
Chemistry	Nitrate in waste matrices as mg N/L	$13.65	Soil/Sediment/Waste	Nutrients-Solid	EPA 300.0
Chemistry	Sulfate in waste matrices	$13.65	Soil/Sediment/Waste	Nutrients-Solid	EPA 300.0
Chemistry	Total Kjeldahl Nitrogen in solid waste matrices	$34.65	Soil/Sediment/Waste	Nutrients-Solid	In-house (based on EPA 351.2)
Chemistry	Analysis of Specific Gravity	$21.00	Soil/Sediment/Waste	Nutrients-Solid	Specific Gravity
Chemistry	Test used for link to Innovation Park Lab	$105.00	Tissue	Overflow	EPA 8015
Chemistry	Test used for link to Columbia Lab	$105.00	Tissue	Overflow	EPA 8015
Chemistry	Test used to remove link to Columbia Analytical Svcs, Jax	$105.00	Tissue	Overflow	Not Applicable
Chemistry	Percent water in solid matrices, analyzed by overflow lab	$55.00	Soil/Sediment/Waste	Overflow	EPA 9000

Chemistry Sample Costs					
Group ID	**Test Description**	**Sample Cost**	**Matrix**	**Analysis Group**	**Method**
Chemistry	Non-halogenated volatiles (Alcohols only), preserved, in water matrix by overflow lab	$90.00	Water	Overflow	EPA 8015
Chemistry	Non-halogenated volatiles in water matrix by overflow lab	$180.00	Water	Overflow	EPA 8015
Chemistry	Non-halogenated Semivolatiles (Glycols), unpreserved, in water matrix by overflow lab	$90.00	Water	Overflow	EPA 8015
Chemistry	Non-halogenated volatiles in water matrices by STL-Savannah	$105.00	Water	Overflow	EPA 8015
Chemistry	Non-halogenated volatiles in waste matrices by Test America Savannah	$105.00	Water	Overflow	EPA 8015
Chemistry	Analysis of acid herbicides (8151) in soils by overflow lab	$120.00	Soil/Sediment/Waste	Overflow	EPA 8151
Chemistry	Analysis of acid herbicides (8151) in water by overflow lab	$120.00	Water	Overflow	EPA 8151
Chemistry	Analysis of soil/sediment samples using EPA Method 8330	$100.00	Soil/Sediment/Waste	Overflow	EPA 8330
Chemistry	Chlorinated (phenoxy acid) herbicides in soil/sediment matrices by an overflow facility	$120.00	Soil/Sediment/Waste	Overflow	EPA 8151A
Chemistry	Chlorinated (phenoxy acid) herbicides in water matrices by an overflow facility	$120.00	Water	Overflow	EPA 8151A
Chemistry	Alkalinity in aqueous matrices analyzed by overflow lab	$7.00	Water	Overflow	EPA 310.1
Chemistry	Semi-volatile PAHs in Tissue Samples by CAS Washington	$410.00	Tissue	Overflow	EPA 8270C
Chemistry	Alkylated PAH analyses in water matrices by an overflow facility	$120.00	Water	Overflow	EPA 8270C
Chemistry	Gross Alpha and Gross Beta in water by overflow laboratory	$70.00	Water	Overflow	EPA 900.0
Chemistry	Gross Alpha in water by overflow laboratory	$26.00	Water	Overflow	EPA 900.0
Chemistry	Gross Alpha in solid samples by overflow lab	$60.00	Soil/Sediment/Waste	Overflow	Overflow
Chemistry	Gross Alpha in water by overflow lab	$40.00	Water	Overflow	EPA 900.0
Chemistry	Gross Alpha in water by overflow laboratory Test America	$26.00	Water	Overflow	EPA 900.0
Chemistry	Gross Alpha in water by overflow lab	$26.00	Water	Overflow	EPA 900.0
Chemistry	Cyanide, amenable to chlorination, in liquid matrices, analyzed by overflow lab	$50.00	Water	Overflow	Overflow
Chemistry	Absorbable Organic Halides in Aqueous Matrices by an Overflow Lab	$85.00	Water	Overflow	EPA 1650
Chemistry	Analysis of asbestos in solid samples, by an overflow lab	$0.00	Soil/Sediment/Waste	Overflow	Overflow
Chemistry	Gross Beta in water by overflow laboratory	$4.00	Water	Overflow	EPA 900.0
Chemistry	Gross Beta in solid samples by overflow lab	$0.00	Soil/Sediment/Waste	Overflow	EPA 900.0
Chemistry	Gross Beta in water by overflow lab	$4.00	Water	Overflow	EPA 900.0
Chemistry	Analysis of bicarbonate in water by overflow lab	$7.00	Water	Overflow	Overflow
Chemistry	Semi-volatile organic pollutants, excluding PCBs and Toxaphene, in water by overflow lab.	$182.50	Water	Overflow	EPA 625
Chemistry	Semi-volatile organic pollutants, excluding PCBs and Toxaphene, in water by overflow lab.	$242.50	Water	Overflow	EPA 8270C
Chemistry	Semi-volatile organic pollutants, excluding PCBs and Toxaphene, in soil/sediments by overflow lab.	$242.50	Soil/Sediment/Waste	Overflow	Overflow
Chemistry	Analysis of Bolstar (sulprofos) in soil/sediment by overflow lab	$100.00	Soil/Sediment/Waste	Overflow	EPA 8141A
Chemistry	Analysis of bolstar (sulprofos) in water by overflow lab.	$100.00	Water	Overflow	EPA 622

Chemistry Sample Costs					
Group ID	**Test Description**	**Sample Cost**	**Matrix**	**Analysis Group**	**Method**
Chemistry	Bromide in aqueous matrices analyzed by overflow lab	$18.00	Water	Overflow	EPA 300.1 Rev. 1.0
Chemistry	Burn rate in solid matrices, analyzed by overflow lab	$30.00	Soil/Sediment/Waste	Overflow	1030
Chemistry	Analysis of captafol and chlorobenzoate in soil/sediment by overflow lab	$100.00	Soil/Sediment/Waste	Overflow	EPA 8081
Chemistry	Analysis of captafol and chlorobenzoate in water by overflow lab	$100.00	Water	Overflow	EPA 8081
Chemistry	Captan Analysis by Overflow Lab	$100.00	Water	Overflow	EPA 617
Chemistry	Captan Analysis in Sediments by Overflow Lab	$100.00	Soil/Sediment/Waste	Overflow	EPA 8081
Chemistry	Carbamates in sediment matrices by overflow lab	$136.00	Soil/Sediment/Waste	Overflow	EPA 630
Chemistry	Dithiocarbonate in water matrice by overflow lab	$120.00	Water	Overflow	EPA 630
Chemistry	Analysis of cation exchange capacity in soil by overflow lab	$80.00	Soil/Sediment/Waste	Overflow	Overflow
Chemistry	Chloride in solid matrices analyzed by overflow lab	$20.00	Soil/Sediment/Waste	Overflow	Overflow
Chemistry	Chloride in aqueous matrices analyzed by overflow lab	$20.00	Water	Overflow	Overflow
Chemistry	Analysis of Chromium VI in water by overflow lab.	$50.00	Water	Overflow	EPA 7196
Chemistry	Organochlorine pesticides in sediment matrices by an Test America Tampa	$100.00	Soil/Sediment/Waste	Overflow	EPA 8081/8082
Chemistry	Organochlorine pesticides and PCBs in sediment matrices analyzed by overflow lab.	$100.00	Soil/Sediment/Waste	Overflow	Overflow
Chemistry	Organochlorine pesticides and PCBs in water matrices analyzed by overflow lab.	$100.00	Water	Overflow	Overflow
Chemistry	Cyanide, total, in aqueous matrices, analyzed by Test America	$37.64	Water	Overflow	EPA 9012B
Chemistry	Cyanide, total, in solid matrices, analyzed by Test America	$37.64	Soil/Sediment/Waste	Overflow	EPA 9012B
Chemistry	Cyanide, total, in aqueous matrices, analyzed by Test America	$37.64	Water	Overflow	EPA 335.4
Chemistry	Chemical Oxygen Demand by STL-Tallahassee	$20.00	Water	Overflow	SM 5220C
Chemistry	Chemical Oxygen Demand by Test America - Savannah	$20.00	Water	Overflow	SM 5220D
Chemistry	Chemical Oxygen Demand by STL-Tampa	$20.00	Water	Overflow	SM 5220C
Chemistry	Corrosivity (pH) measurement for waste matrices analyzed by Test America, Savannah.	$23.52	Soil/Sediment/Waste	Overflow	EPA 9040
Chemistry	Corrosivity (pH) measurement for water matrices analyzed by Test America, Savannah.	$23.52	Water	Overflow	EPA 9040
Chemistry	Analysis of Chromium VI in soil/sediment matrices by overflow lab.	$50.00	Soil/Sediment/Waste	Overflow	Overflow
Chemistry	Analysis of Chromium VI in water by overflow lab.	$100.00	Water	Overflow	EPA 7196
Chemistry	Analysis of Dioxin in soil by Columbia Analytical Services	$588.00	Soil/Sediment/Waste	Overflow	EPA 8290
Chemistry	Analysis of Dioxin in water matrices by ALS	$588.00	Water	Overflow	EPA 8290
Chemistry	Dissolved Light Gases (C1-C3), Diss CH4, Isotopes 12C and 13C in water matrices by Isotech Labs	$110.00	Water	Overflow	RSK-175
Chemistry	Analysis of dioctylsulfosuccinate-NA in seawater by an overflow lab - LC/MS/MS	$350.00	Water	Overflow	LC/MS/MS
Chemistry	Total Petroleum Hydrocarbons - Diesel Range Organics (C10-C28) in water by Test America	$40.00	Water	Overflow	EPA 8015C
Chemistry	Analysis of ethylene glycol in waste liquid, solid or semi-solid matrices by overflow laboratory	$122.50	Soil/Sediment/Waste	Overflow	Overflow

Chemistry Sample Costs					
Group ID	**Test Description**	**Sample Cost**	**Matrix**	**Analysis Group**	**Method**
Chemistry	Analysis of ethylene glycol in water matrices by STL-Savannah	$75.00	Water	Overflow	EPA 8015C
Chemistry	Microcystins in water matrices by overflow lab using ADDA ELISA	$125.00	Water	Overflow	ADDA ELISA
Chemistry	Analysis of Ferrous Iron in water by overflow lab.	$28.00	Water	Overflow	SM 3500 FE D
Chemistry	Flashpoint in liquid waste matrices, analyzed by overflow lab	$37.64	Soil/Sediment/Waste	Overflow	EPA 1010
Chemistry	Ignitability in liquid matrices, analyzed by overflow lab	$40.00	Soil/Sediment/Waste	Overflow	EPA 1010
Chemistry	Fluoride in aqueous matrices analyzed by overflow lab.	$7.00	Water	Overflow	Overflow
Chemistry	Analysis of formaldehyde in water by Test America Tallahassee	$175.00	Water	Overflow	EPA 8315
Chemistry	Analysis of formaldehyde in sediment/soil matrices by overflow lab	$160.00	Soil/Sediment/Waste	Overflow	Overflow
Chemistry	Gamma Emitters in Soil by Overflow Lab	$120.00	Soil/Sediment/Waste	Overflow	DOE 4.5.2.3
Chemistry	Gamma Emitters in Water by an Overflow Lab	$110.00	Water	Overflow	Overflow
Chemistry	Analysis of hydrazine by a non-contract overflow lab	$42.00	Water	Overflow	Overflow
Chemistry	Metals analysis by overflow lab in aqueous samples using ICP emission spectroscopy.	C 7.00	Water	Overflow	6010
Chemistry	Ignitability in solid matrices, analyzed by overflow lab	$37.64	Soil/Sediment/Waste	Overflow	EPA 1030
Chemistry	Analysis of explosives by overflow lab using LC Mass Spec	$245.00	Water	Overflow	Overflow
Chemistry	Lithium using ICP-MS for aqueous samples supporting RCRA Projects	C 30.00	Water	Overflow	EPA 6020
Chemistry	MBAS in water by Test America Savannah	$50.00	Water	Overflow	SM5540C
Chemistry	Microcystins in water matrices by overflow lab using ADDA ELISA	$125.00	Water	Overflow	EPA 8321B
Chemistry	Analysis of methanol in water by an overflow facility	$170.00	Water	Overflow	Overflow
Chemistry	Analysis of volatile petroleum hydrocarbons in soil/sediments by overflow lab using the Massachusetts DEP Method	$87.50	Soil/Sediment/Waste	Overflow	MA DEP Method - VPH
Chemistry	Analysis of volatile petroleum hydrocarbons in water by overflow lab using the Massachusetts DEP Method	$100.00	Water	Overflow	MA DEP Method - VPH
Chemistry	Naled Analysis of Tissue Samples by Outside Lab	$0.00	Tissue	Overflow	Dept. of Agriculture Analysis Method
Chemistry	Ammonia in solid matrices analyzed by overflow lab.	$10.00	Soil/Sediment/Waste	Overflow	Overflow
Chemistry	Ammonia in aqueous matrices analyzed by overflow lab.	$10.00	Water	Overflow	Overflow
Chemistry	Nitroglycerin in soil/sediment matrices by Test America Tallahassee	$180.00	Soil/Sediment/Waste	Overflow	EPA 8330
Chemistry	Nitroglycerin in water matrices by Test America Tallahassee	$180.00	Water	Overflow	EPA 8330
Chemistry	Nitrite, in aqueous matrices, analyzed by STL-Tallahassee	$15.00	Water	Overflow	EPA 354.1
Chemistry	Nitrate in aqueous matrices by subtraction, analyzed by STL-Tallahassee	$21.00	Water	Overflow	EPA 353.2
Chemistry	Nitrate, in aqueous matrices, analyzed by STL-Savannah, by subtraction	$10.00	Water	Overflow	Overflow
Chemistry	Nitrate, in aqueous matrices, analyzed by STL-Tampa, by subtraction	$10.00	Water	Overflow	EPA 353.2
Chemistry	Nitrite/Nitrate in solid matrices analyzed by overflow lab	$12.00	Soil/Sediment/Waste	Overflow	Overflow

Chemistry Sample Costs					
Group ID	**Test Description**	**Sample Cost**	**Matrix**	**Analysis Group**	**Method**
Chemistry	Nitrite/Nitrate in aqueous matrices analyzed by overflow lab	$12.00	Water	Overflow	EPA 353.2
Chemistry	Organonitrogen and phosphorus pesticides in water matrices by an overflow facility	$100.00	Water	Overflow	EPA 614
Chemistry	Organonitrogen and phosphorus pesticides in water matrices by an overflow facility	$100.00	Water	Overflow	EPA 619
Chemistry	Oil and grease analysis in liquid samples by overflow lab	$60.00	Soil/Sediment/Waste	Overflow	EPA 1664
Chemistry	Oil and grease analysis in water by Test America Savannah	$60.00	Water	Overflow	EPA 1664
Chemistry	Oil and grease analysis in soil/sediment by Test America Savannah	$100.00	Soil/Sediment/Waste	Overflow	EPA 1664
Chemistry	Oil and grease analysis in waste samples by Test America Savannah	$100.00	Soil/Sediment/Waste	Overflow	EPA 9071
Chemistry	Analysis of total organic halogens in oily matrices by overflow lab.	$100.00	Soil/Sediment/Waste	Overflow	Overflow
Chemistry	Semi-volatile PAHs by overflow lab.	$120.00	Soil/Sediment/Waste	Overflow	EPA 8270C
Chemistry	Semi-volatile PAHs in soil and sediment by Test America Savannah.	$120.00	Soil/Sediment/Waste	Overflow	EPA 8270C
Chemistry	Semi-volatile PAHs by overflow lab.	$120.00	Soil/Sediment/Waste	Overflow	EPA 8270C
Chemistry	Semi-volatile PAHs by overflow lab.	$120.00	Soil/Sediment/Waste	Overflow	EPA 8270C
Chemistry	Organochlorine pesticides in water matrices by an overflow facility	$100.00	Water	Overflow	EPA 608
Chemistry	Organochlorine pesticides in sediment matrices by an overflow facility	$100.00	Soil/Sediment/Waste	Overflow	EPA 8081A
Chemistry	PCBs in soil/sediment matrices analyzed by overflow lab.	$100.00	Soil/Sediment/Waste	Overflow	EPA 8082
Chemistry	PCBs in soil/sediment matrices analyzed by Test America Tampa	$100.00	Soil/Sediment/Waste	Overflow	EPA 8082
Chemistry	Organochlorine pesticides in sediment matrices by an Test America Tampa	$100.00	Soil/Sediment/Waste	Overflow	EPA 8081A
Chemistry	Organochlorine pesticides in water matrices by an overflow facility	$100.00	Water	Overflow	EPA 8081A
Chemistry	Diquat and paraquat in sediment matrices by an overflow facility	$200.00	Soil/Sediment/Waste	Overflow	Overflow
Chemistry	Diquat and paraquat in water matrices by overflow lab	$125.00	Water	Overflow	Overflow
Chemistry	Perchlorate in aqueous matrices analyzed by Test America Savannah	$70.00	Water	Overflow	Overflow
Chemistry	pH measurement for waste matrices by overflow lab	$5.00	Soil/Sediment/Waste	Overflow	EPA 9040
Chemistry	Organonitrogen and phosphorus pesticides in water matrices by an overflow facility	$100.00	Water	Overflow	EPA 8141A
Chemistry	Polonium-210 (HASL 300) by overflow laboratory TA Richland, WA	$120.00	Water	Overflow	HASL 300
Chemistry	Ortho-phosphate in aqueous matrices analyzed by overflow lab	$10.00	Water	Overflow	EPA 365.1
Chemistry	Perchlorate in aqueous matrices analyzed by STL-Denver	$200.00	Water	Overflow	Overflow
Chemistry	Organochlorine pesticides in sediment matrices by an overflow facility	$100.00	Soil/Sediment/Waste	Overflow	EPA 8081A
Chemistry	Organochlorine pesticides in sediment matrices analyzed by overflow lab.	$100.00	Soil/Sediment/Waste	Overflow	EPA 8081
Chemistry	Organonitrogen and phosphorus pesticides in soil/sediment matrices by an overflow facility	$100.00	Soil/Sediment/Waste	Overflow	EPA 8141A
Chemistry	Organonitrogen and phosphorus pesticides in soil/sediment matrices by Test America Tampa	$100.00	Soil/Sediment/Waste	Overflow	EPA 8141A
Chemistry	Radium 226 (EPA 903.1) by overflow laboratory TA Richland WA	$138.00	Water	Overflow	EPA 903.1

Chemistry Sample Costs					
Group ID	**Test Description**	**Sample Cost**	**Matrix**	**Analysis Group**	**Method**
Chemistry	Radium 228 (EPA 904.0) by overflow laboratory TA Tallahassee	$138.00	Water	Overflow	EPA 904.0
Chemistry	Radium 226 and 228 by overflow lab	$220.00	Water	Overflow	Overflow
Chemistry	Radium 226 (EPA 903.1) and 228 (EPA 904.0) by Florida Radiochem	$138.00	Water	Overflow	EPA 903.1 and Ra-05
Chemistry	Radium 226 and 228 in solid samples by outside lab	$192.00	Soil/Sediment/Waste	Overflow	Overflow
Chemistry	Radium 226 and 228 by overflow lab	$138.00	Water	Overflow	Overflow
Chemistry	Reactivity analysis (from RCRA) of waste samples by overflow lab	$100.00	Soil/Sediment/Waste	Overflow	Overflow
Chemistry	Radon-222 (EPA 913.0) by overflow laboratory TA Richland, WA	$100.00	Water	Overflow	EPA 913.0
Chemistry	Dissolved Light Hydrocarbons in water matrices by Test America, Pensacola	$110.00	Water	Overflow	RSK-175
Chemistry	Analysis of settleable solids by an overflow laboratory	$20.00	Water	Overflow	SM 2540F
Chemistry	Analysis of CFCs and SF6 in water by electron capture detection.	$0.00	Water	Overflow	Overflow
Chemistry	Sulfide in aqueous matrices by Contract Lab - Test America	$23.52	Water	Overflow	SM 4500-S F
Chemistry	Total Sulfur in water matrix by overflow laboratory	$50.00	Water	Overflow	EPA 300.0 mod.
Chemistry	Sulfate in aqueous matrices analyzed by overflow lab.	$7.00	Water	Overflow	Overflow
Chemistry	Analysis of total sulfur, in soils or oily samples, by overflow lab	$100.00	Soil/Sediment/Waste	Overflow	Overflow
Chemistry	Mercury in TCLP analyzed by an overflow laboratory	$150.00	Soil/Sediment/Waste	Overflow	EPA 1311
Chemistry	Total Dissolved Solids in aqueous matrices analyzed by overflow lab	$7.00	Water	Overflow	EPA 160.1
Chemistry	Total Kjeldahl Nitrogen in aqueous matrices analyzed by overflow lab	$28.00	Water	Overflow	EPA 351.2
Chemistry	TO-14 analysis of air by an overflow facility	$250.00	Air	Overflow	Overflow
Chemistry	TO-15/16 analysis of air by an overflow facility	$250.00	Air	Overflow	Overflow
Chemistry	TOC, in solid matrices, analyzed by overflow laboratory	$50.00	Soil/Sediment/Waste	Overflow	EPA-CE (Walkley-Black)
Chemistry	TOC, in solid matrices, analyzed by Test America Savannah	$72.00	Soil/Sediment/Waste	Overflow	EPA 9060 Single
Chemistry	TOC, in water matrices, analyzed by overflow laboratory	$30.00	Water	Overflow	Overflow
Chemistry	Total Petroleum Hydrocarbons - Diesel Range Organics in water by GCAL	$39.60	Water	Overflow	EPA 8015C
Chemistry	Total Petroleum Hydrocarbons - Gasoline Range Organics in water by GCAL	$29.70	Water	Overflow	EPA 8015C
Chemistry	Total Petroleum Hydrocarbons - Oil Range Organics in water by GCAL	$39.60	Water	Overflow	EPA 8015C
Chemistry	Total Phosphorus Analysis in Water by Overflow Lab	$25.00	Water	Overflow	EPA 365
Chemistry	Tritium by EPA 906.0 by overflow lab	$90.00	Water	Overflow	EPA 906.0
Chemistry	TRPH in Soil or Sediment by Overflow Lab	$100.00	Soil/Sediment/Waste	Overflow	FL-PRO
Chemistry	TRPH Analysis in Water by Overflow Lab	$100.00	Water	Overflow	FL-PRO
Chemistry	TRPH in waste by Overflow Lab	$100.00	Soil/Sediment/Waste	Overflow	FL-PRO
Chemistry	Total Suspended Solids in aqueous matrices analyzed by overflow lab	$7.00	Water	Overflow	EPA 160.2

Chemistry Sample Costs					
Group ID	**Test Description**	**Sample Cost**	**Matrix**	**Analysis Group**	**Method**
Chemistry	Total Solids in solid matrices analyzed by Test America-North Canton	$20.00	Soil/Sediment/Waste	Overflow	EPA 160.3
Chemistry	Urea herbicides and Imidacloprid in water matrices by overflow lab	$100.00	Water	Overflow	EPA 632
Chemistry	Urea herbicides in sediment matrices by overflow lab	$100.00	Soil/Sediment/Waste	Overflow	EPA 632
Chemistry	Volatile organic pollutants in sediment matrices by an overflow lab.	$90.00	Soil/Sediment/Waste	Overflow	EPA 8260B
Chemistry	Volatile organic pollutants in water matrices by overflow lab.	$90.00	Water	Overflow	EPA 8260
Chemistry	Analysis of volatile solids by Test America Tallahassee	$21.00	Water	Overflow	SM 2540E
Chemistry	Percent water using the Karl Fisher Titration by Test America-Mobile	$20.00	Soil/Sediment/Waste	Overflow	ASTM E203-75(86)
Chemistry	PAH analyses in water matrices by an overflow facility	$120.00	Water	Overflow	EPA 8270C
Chemistry	Volatile organic pollutants in acid preserved water by an overflow facility	$90.00	Water	Overflow	EPA 8260C
Chemistry	Acrylonitrile and Acrolein in sediment matrices using GC/MS	$89.25	Soil/Sediment/Waste	VOC-Waste	EPA 8260C
Chemistry	Volatile organic pollutants in SPLP samples using GC/MS	$210.00	Soil/Sediment/Waste	VOC-Waste	EPA 8260C
Chemistry	Volatile organic pollutants in soil matrix using GC/MS (heated purge - low level)	$94.50	Soil/Sediment/Waste	VOC-Waste	EPA 8260C
Chemistry	Volatile organic pollutants in soil matrix using GC/MS (extraction - high level)	$110.25	Soil/Sediment/Waste	VOC-Waste	EPA 8260C
Chemistry	Volatile organic pollutants in TCLP samples using GC/MS	$210.00	Soil/Sediment/Waste	VOC-Waste	EPA 1311/8260C
Chemistry	Volatile organic pollutants in waste matrices using GC/MS	$110.25	Soil/Sediment/Waste	VOC-Waste	EPA 8260C
Chemistry	1,4-Dioxane in Aqueous Matrices by GC/MS using SIM	$100.00	Water	VOC-Water	EPA 522
Chemistry	Acrylonitrile and Acrolein in water matrices using GC/MS	$68.25	Water	VOC-Water	EPA 624
Chemistry	Non-halogenated volatiles in water matrix by modified EPA 8015C (GC/MS).	$105.00	Water	VOC-Water	EPA 8015 Modified
Chemistry	Glycols in water matrix by modified EPA 8015C (GC/MS).	$105.00	Water	VOC-Water	EPA 8015 Modified
Chemistry	Acrylonitrile and Acrolein in water matrices using GC/MS	$68.25	Water	VOC-Water	EPA 8260C
Chemistry	Volatile organic pollutants in water matrices using GC/MS - heated purge	$84.00	Water	VOC-Water	EPA 8260C
Chemistry	Ethyl Acetate in water matrix by modified EPA 8260C (GC/MS).	$105.00	Water	VOC-Water	EPA 8260C
Chemistry	Volatile organic pollutants in water matrices using GC/MS/SIM	$84.00	Water	VOC-Water	EPA 8260C
Chemistry	Fumigant pollutants in acid preserved water matrices using GC/MS/SIM	$84.00	Water	VOC-Water	EPA 8260C
Chemistry	Volatile organic pollutants in acid preserved water matrices using GC/MS	$84.00	Water	VOC-Water	EPA 8260C
Chemistry	Volatile organic pollutants in water matrices using GC/MS	$84.00	Water	VOC-Water	EPA 624
Chemistry	Volatile organic pollutants in acid preserved water matrices using GC/MS [do not use until new 624 updates]	$84.00	Water	VOC-Water	EPA 624
Chemistry	Volatile organic pollutants in water matrices using GC/MS	$84.00	Water	VOC-Water	EPA 8260C

Chemistry Sample Costs					
Group ID	**Test Description**	**Sample Cost**	**Matrix**	**Analysis Group**	**Method**
FieldParms	Sample field parameters.	$0.00	Water	Field-Parameters	Calculated
FieldParms	Percent solid determination before the other sample preparations.	$0.00	Soil/Sediment/Waste	Field-Parameters	SM 2540 G (20th)

Biological Sample Costs

Biological Sample Costs		
Group ID	**Test Description**	**Sample Cost**
Biology	Potential algal growth determination.	$105.00
Biology	Potential algal growth determination-dechlorinated sample.	$94.50
Biology	Potential algal growth determination, sample frozen.	$105.00
Biology	Potential algal growth determination-pH adjusted sample.	$94.50
Biology	Potential algal growth determination-salinity adjusted sample.	$94.50
Biology	Potential algal growth determination-nutrient spiked for determination of growth inhibition.	$94.50
Biology	Potential algal growth determination-saltwater sample.	$94.50
Biology	Nutrient(s) limiting algal growth determination.	$252.00
Biology	Nutrient(s) limiting algal growth determination, sample frozen.	$252.00
Biology	BOD, nitrogen-inhibited (=CBOD)	$47.25
Biology	Five N-inhibited BOD's of different durations	$115.50
Biology	Five NOT-N-inhibited BOD's of different durations	$115.50
Biology	BOD, NOT nitrogen-inhibited	$47.25
Biology	Periphyton ash-free dry weight (biomass)	$31.50
Biology	Everglades periphyton chlorophyll-a and phaeophytin by spectrophotometry	$36.75
Biology	Everglades phytoplankton chlorophyll-a and pheophytin by spectrophotometry	$31.50
Biology	Periphyton chlorophyll-a by modified fluorometry	$36.75
Biology	Phytoplankton chlorophyll-a by modified fluorometry	$31.50
Biology	Phytoplankton chlorophyll-a corrected, uncorrected, pheophytin and ratio by spectrophotometry	$31.50
Biology	No. Taxa of Everglades macroinverts, qual sample, 20 dipnets.	$551.25
Biology	No. taxa of Everglades macroinverts, artificial substrate	$120.75
Biology	No. taxa of chironomid larvae, Bur Aquatic Plants	$157.50
Biology	No. taxa of FW macroinverts, bioreconnaissance	$252.00
Biology	No. Taxa of FW macroinverts, qual sample, 20 dipnets.	$420.00
Biology	No. Taxa of FW macroinverts, qual sample, 20 dipnets - method development	$388.50
Biology	No. taxa of FW macroinverts, artificial substrate	$430.50
Biology	No. taxa of FW macroinverts, composite lake sample	$577.50
Biology	No. taxa of FW macroinverts, natural substrate	$750.75
Biology	No. taxa SW macroinverts, quant sample, 3 inch core	$315.00
Biology	No. taxa of SW macroinverts, qual sample, 20 dipnets	$693.00
Biology	No. taxa of SW macroinverts, qual sample, 1 dipnet	$220.50
Biology	No. taxa of SW macroinverts, quant sample, 2 inch core	$199.50
Biology	No. taxa SW macroinverts, quant sample, 10 core composite	$913.50
Biology	No. taxa of marine macroinverts, natural substrate	$892.50
Biology	No. taxa of marine macroinverts, seagrass, vanveen	$1,312.50
Biology	No. taxa marine macroinverts, substrate unk, vanveen	$1,312.50
Biology	Macroinvertebrate sample identified, but not sorted.	$194.25
Biology	Sample sorted for macroinvertebrates, but not identified.	$99.75
Biology	Macroinvertebrate sample identified, but not sorted.	$345.00
Biology	Sample sorted for macroinvertebrates, but not identified.	$175.00
Biology	No. Taxa of Wetland macroinverts, qual sample, 20 dipnets.	$603.75

Biological Sample Costs		
Group ID	**Test Description**	**Sample Cost**
Biology	Zooplankton in freshwater - count and ID	$0.00
Biology	Drinking water standard heterotrophic plate count	$15.75
Biology	Escherichia coli by Colilert 18 Quanti-Tray method-chlorinated water systems	$16.00
Biology	Escherichia coli by membrane filter method-chlorinated water systems	$21.00
Biology	Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems	$16.00
Biology	Escherichia coli by membrane filter method - non-chlorinated water systems	$21.00
Biology	Enterococci by membrane filter method using 24 hour mEI agar-chlorinated water systems	$26.25
Biology	Enterococci by Enterolert Quanti-Tray method using 24 hour mEI agar-chlorinated water systems	$17.00
Biology	Enterococci by membrane filter method using 24 hour mEI agar - non-chlorinated water systems	$26.25
Biology	Enterococci by Enterolert Quanti-Tray method - non-chlorinated water systems	$17.00
Biology	Enterococci by multiple tube method	$31.50
Biology	Enterococci colony speciation	$39.90
Biology	Enterococci by multiple tube method for soil and sediment	$31.50
Biology	Fecal coliforms by membrane filter method-chlorinated water systems	$21.00
Biology	Fecal coliforms by multiple tube method for soil and sediment	$31.50
Biology	Fecal coliforms by membrane filter method - non-chlorinated water systems	$21.00
Biology	Fecal coliforms by membrane filter method - soil/sediment/waste elutriate	$21.00
Biology	Fecal coliforms by multiple tube method	$26.25
Biology	Fecal coliforms by Colilert QuantiTray method - soil/sediment/waste	$16.00
Biology	Standard heterotrophic plate count	$15.75
Biology	Total coliforms by membrane filter method-chlorinated water systems	$21.00
Biology	Total coliforms by membrane filter method - non-chlorinated water systems	$21.00
Biology	Total coliforms by multiple tube method	$26.25
Biology	Tests DI water for microbiology QA standards	$420.00
Biology	Fecal coliforms by membrane filter method by Advanced Environmental Overflow Laboratory in Altalmonte Springs for CD	$27.00
Biology	Enterococci by membrane filter method by Flowers Overflow Laboratory for CD	$35.00
Biology	Fecal coliforms by membrane filter method by Flowers Overflow Laboratories for CD	$35.00
Biology	Fecal coliforms by membrane filter method by Pace Analytical Services - Ormond Beach Overflow Laboratories for CD	$50.00
Biology	Fecal coliforms by membrane filter method by Test America Overflow Laboratory for CD	$20.00
Biology	Escherichia coli by membrane filter method using modified mTEC by Advanced Environmental Gainesville Overflow Laboratories for NED	$50.00
Biology	Enterococci by membrane filter method by Advanced Environmental Gainesville Overflow Lab for NED	$50.00
Biology	Fecal coliforms by membrane filter method by Advanced Environmental Gainesville Overflow Laboratories for NED	$23.91
Biology	Fecal coliforms by membrane filter method by Advanced Environmental Jax Overflow Laboratories for NED	$27.00
Biology	Enterococci by MPN by ALS Environmental Overflow Laboratory for NED	$39.00
Biology	Fecal coliforms by membrane filter method by ALS Environmental - FL Overflow Laboratories for NED	$48.00
Biology	Fecal coliforms by membrane filter method by Flowers Overflow Laboratory for NED	$35.00
Biology	Fecal coliforms by membrane filter method by JEA Overflow Laboratory for NED	$0.00
Biology	Fecal coliforms by membrane filter method by Pace Analytical Services - Ormond Beach Overflow Laboratories for NED	$50.00
Biology	Escherichia coli by Colilert 18 Quanti-Tray method by UWF Overflow Laboratory for NWD	$25.00
Biology	Enterococci by Enterolert Quanti-Tray method by UWF Overflow Laboratory for NWD	$25.00
Biology	Enterococci by membrane filter method by UWF Overflow Laboratory for NWD	$25.00

Biological Sample Costs		
Group ID	**Test Description**	**Sample Cost**
Biology	Fecal coliforms by membrane filter method by UWF Overflow Laboratory for NWD	$25.00
Biology	Enterococci by membrane filter method by The Water Spigot overflow Laboratory for NWD	$24.25
Biology	Fecal coliforms by membrane filter method by The Water Spigot overflow Laboratory for NWD	$24.25
Biology	Escherichia coli by Colilert 18 Quanti-Tray method by Flowers Overflow Laboratory for SD	$51.00
Biology	Enterococci by Enterolert Quanti-Tray method by Flowers Overflow Laboratory for SD	$51.00
Biology	Enterococci by membrane filter method by Flowers Overflow Laboratory for SD	$51.00
Biology	Fecal coliforms by membrane filter method by Flowers Overflow Laboratory for SD	$51.00
Biology	Enterococci by MPN method by Sanders Laboratories Overflow Laboratory for SD	$35.00
Biology	Fecal coliforms by membrane filter method by Sanders Laboratories Overflow Laboratory for SD	$30.00
Biology	Enterococci by membrane filter method by Flowers Overflow Laboratory for SED	$35.00
Biology	Fecal coliforms by membrane filter method by Flowers Overflow Laboratory for SED	$35.00
Biology	Enterococci by membrane filter method by Florida Spectrum overflow lab for SE District	$42.00
Biology	Fecal coliforms by membrane filter method by Florida Spectrum overflow lab for SE District	$27.60
Biology	Fecal coliforms by multiple tube method by Advanced Environmental Overflow Laboratories for SWD	$50.00
Biology	Enterococci by membrane filter method by Advanced Environmental Overflow Laboratories for SWD	$50.00
Biology	Fecal coliforms by membrane filter method by Advanced Environmental Overflow Laboratories for SWD	$23.91
Biology	Fecal coliforms by membrane filter method by Pace Analytical Services - Tampa Overflow Laboratories for SWD	$20.00
Biology	No. taxa of marine macroinverts, natural substrate, by Water & Air Research overflow laboratory in Gainesville, FL	$415.80
Biology	Qualitative assessment of algal taxa present without counts	$35.00
Biology	Assessment of dominant algal taxa in bloom or mat sample	$35.00
Biology	No. of diatom taxa of qualitative periphyton sample	$183.75
Biology	No. of diatom taxa of qualitative periphyton sample w/speciation and cell counts.	$99.75
Biology	No. of diatom taxa of quantitative periphyton sample	$126.00
Biology	No. of diatom taxa of quantitative periphyton sample w/speciation and cell counts.	$126.00
Biology	No. of diatom taxa of quantitative phytoplankton sample.	$120.75
Biology	No. of wet taxa of quantitative phytoplankton sample w/speciation and cell counts.	$120.75
Biology	No. of wet taxa of quantitative phytoplankton sample.	$94.50
Biology	No. of wet taxa of qualitative periphyton sample.	$105.00
Biology	No. of wet taxa of qualitative periphyton sample w/speciation and cell counts.	$131.25
Biology	No. of wet taxa of quantitative periphyton sample.	$105.00
Biology	No. of wet taxa of quantitative periphyton sample w/speciation and cell counts.	$120.75
Biology	Preparation of Samples by Filtration and held for qPCR Analysis	$10.00
Biology	Percent organics in sediment	$31.50
Biology	Analysis of specific gravity in sediments	$31.50
Biology	Measurement of sediment particle-size proportions	$120.75
Biology	Laser measurement of sediment particle-size	$73.50
Biology	Measurement of sediment total dry weight	$21.00
Biology	Laser measurement of sediment particle-size based on Unified Soils scale classification	$73.50
Biology	Laser measurement of sediment particle-size based on USDA scale classification	$73.50
Biology	Laser measurement of sediment particle-size based on Wentworth scale classification	$73.50
Biology	Acute Definitive Toxicity Test w/Sediment Elutriate and the Water Flea	$451.50

Biological Sample Costs		
Group ID	**Test Description**	**Sample Cost**
Biology	Acute Definitive Toxicity Test w/Sediment Elutriate and Freshwater Fish Species	$420.00
Biology	Acute Definitive Toxicity Test w/Sediment Elutriate and Marine Fish Species	$420.00
Biology	Acute Definitive Toxicity Test w/Sediment Elutriate and Mysid Shrimp	$420.00
Biology	Definitive acute toxicity test, FW--water flea.	$367.50
Biology	Definitive acute toxicity test, FW--freshwater fish.	$441.00
Biology	Definitive acute toxicity test, SW--saltwater fish.	$451.50
Biology	Definitive acute toxicity test, SW--mysid shrimp.	$472.50
Biology	Acute Definitive Toxicity Test w/Sediment Pore Water and the Water Flea	$420.00
Biology	Acute Definitive Toxicity Test w/Sediment Pore Water and Mysid Shrimp	$420.00
Biology	Acute Definitive Toxicity Test w/Whole Sediment and the Water Flea	$420.00
Biology	Acute Definitive Toxicity Test w/Whole Sediment and Freshwater Fish Species	$420.00
Biology	Acute definitive toxicity test w/sediment elutriate and marine fish species	$420.00
Biology	Acute Definitive Toxicity Test w/Whole Sediment and Mysid Shrimp	$420.00
Biology	Acute Screening Toxicity Test w/Sediment Elutriate and the Water Flea	$325.50
Biology	Acute Screening Toxicity Test w/Sediment Elutriate and Freshwater Fish Species	$325.50
Biology	Acute Screening Toxicity Test w/Sediment Elutriate and Marine Fish Species	$325.50
Biology	Acute Screening Toxicity Test w/Sediment Elutriate and Mysid Shrimp	$325.50
Biology	Screening acute toxicity test, FW--water flea.	$262.50
Biology	Screening acute toxicity test, FW--freshwater fish.	$341.25
Biology	Screening acute toxicity test, SW--saltwater fish.	$399.00
Biology	Screening acute toxicity test, SW--mysid shrimp.	$420.00
Biology	Acute Screening Toxicity Test w/Sediment Pore Water and the Water Flea	$325.50
Biology	Acute Screening Toxicity Test w/Sediment Pore Water and Mysid Shrimp	$325.50
Biology	Acute Screening Toxicity Test w/Whole Sediment and the Water Flea	$325.50
Biology	Acute Screening Toxicity Test w/Whole Sediment and Freshwater Fish Species	$325.50
Biology	Acute Screening Toxicity Test w/Whole Sediment and Marine Fish Species	$325.50
Biology	Acute Screening Toxicity Test w/Whole Sediment and Mysid Shrimp	$325.50
Biology	Chronic Definitive Toxicity Test w/Sediment Elutriate and Sea Urchin Gametes	$630.00
Biology	Chronic Definitive Toxicity Test w/Sediment Elutriate and the Water Flea	$903.00
Biology	Chronic Definitive Toxicity Test w/Sediment Elutriate and Freshwater Fish Species	$903.00
Biology	Chronic Definitive Toxicity Test w/Sediment Elutriate and Marine Fish Species	$903.00
Biology	Chronic Definitive Toxicity Test w/Sediment Elutriate and Mysid Shrimp	$903.00
Biology	Chronic toxicity test, definitive, FW--water flea.	$735.00
Biology	Chronic toxicity test, definitive, FW--freshwater fish.	$777.00
Biology	Chronic toxicity test, definitive, FW--freshwater alga	$404.25
Biology	Chronic toxicity test, definitive, SW--sea urchin.	$514.50
Biology	Chronic toxicity test, definitive, SW--Menidia (fish).	$777.00
Biology	Chronic toxicity test, definitive, SW--mysid shrimp.	$829.50
Biology	Chronic Definitive Toxicity Test w/Sediment Pore Water and Sea Urchin Gametes	$630.00
Biology	Chronic Definitive Toxicity Test w/Sediment Pore Water and the Water Flea	$903.00
Biology	Chronic Screening Toxicity Test w/Sediment Elutriate and Sea Urchin Gametes	$367.50

Biological Sample Costs		
Group ID	**Test Description**	**Sample Cost**
Biology	Chronic Screening Toxicity Test w/Sediment Elutriate and the Water Flea	$630.00
Biology	Chronic Screening Toxicity Test w/Sediment Elutriate and Freshwater Fish Species	$630.00
Biology	Chronic Screening Toxicity Test w/Sediment Elutriate and Marine Fish Species	$630.00
Biology	Chronic Screening Toxicity Test w/Sediment Elutriate and Mysid Shrimp	$630.00
Biology	Chronic toxicity test, screen, FW--water flea.	$504.00
Biology	Chronic toxicity test, screen, FW--freshwater fish.	$556.50
Biology	Chronic toxicity test, screen, FW--freshwater alga	$346.50
Biology	Chronic toxicity test, screen, SW--sea urchin.	$325.50
Biology	Chronic toxicity test, screen, SW--Menidia (fish).	$556.50
Biology	Chronic toxicity test, screen, SW--mysid shrimp.	$588.00
Biology	Chronic Screening Toxicity Test w/Sediment Pore Water and Sea Urchin Gametes	$367.50
Biology	Chronic Screening Toxicity Test w/Sediment Pore Water and the Water Flea	$630.00
Biology	Analysis of Total Chlorine in Liquid Matrices	$84.00

Standards and Solutions Costs

Standards and Solutions Costs		
Analyte	**Test Description**	**Average Annual Cost**
pH	Buffer Color Red pH 4.0	$272.00
pH	Buffer Color Yellow pH 7.0	$272.00
pH	Buffer Color Blue pH 10.0	$272.00
Conductivity	Standard 100 µS/CM	$320.46
Conductivity	Standard 1,000 µS/CM	$384.00
Conductivity	Standard 10,000 µS/CM	$330.00
Turbidity	Calibration Set	$306.13
Total Residual Chlorine	Total Chlorine Pillow Packs	$34.65
Total Residual Chlorine	Spec Color Standards	$239.58
All costs were obtained from Fisher Scientific website in 2021. https://www.fishersci.com/us/en/home.html		

Domestic Wastewater Permitting Costs

Domestic Wastewater Permitting Costs					
Permit Type Description	**Permit Subtype**	**Permit Subtype Description**	**General Permit**	**Period (Years)**	**Fee Amount**
Water - Domestic Wastewater Type I Facility Permit	MR	Minor Revision to change monitoring requirements or modify Treatment Facility	N	5	500
Water - Domestic Wastewater Type I Facility Permit	SW	Surface Water Discharge/Outfall only	N	5	2,000
Water - Domestic Wastewater Type I Wastewater Treatment Plant Permit	NP	New Permit with Preliminary Design Report	N	5	10,000
Water - Domestic Wastewater Type I Wastewater Treatment Plant Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	5	5,000
Water - Domestic Wastewater Type I Wastewater Treatment Plant Permit	NRL	Renewal Exceeding 5-Year Term	N	10	5,000
Water - Domestic Wastewater Type I Wastewater Treatment Plant Permit	PD	Preliminary Design Report Review	N	5	5,000
Water - Domestic Wastewater Type I Wastewater Treatment Plant Permit	RA	Substantial Revision involving Antidegradation or Increased Permitted Capacity	N	5	5,000
Water - Domestic Wastewater Type I Wastewater Treatment Plant Permit	RM	Substantial Revision not associated with substantial modifications	N	5	1,000
Water - Domestic Wastewater Type I Wastewater Treatment Plant Permit	RO	Substantial Revision w/o Antidegradation or Increased Permitted Capacity	N	5	2,500
Water - Domestic Wastewater Type I Reuse/Land ApplicationSystem Permit	NP	New Permit with Preliminary Design Report	N	5	10,000
Water - Domestic Wastewater Type I Reuse/Land Application System Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	5	5,000
Water - Domestic Wastewater Type I Reuse/Land ApplicationSystem Permit	NRL	Renewal Exceeding 5-Year Term	N	10	5,000
Water - Domestic Wastewater Type I Reuse/Land ApplicationSystem Permit	PD	Preliminary Design Report Review	N	5	5,000
Water - Domestic Wastewater Type I Reuse/Land Application System Permit	RA	Substantial Revision involving Antidegradation or Increased Permitted Capacity	N	5	5,000
Water - Domestic Wastewater Type I Reuse/Land ApplicationSystem Permit	RM	Substantial Revision not associated with substantial modifications	N	5	1,000
Water - Domestic Wastewater Type I Reuse/Land ApplicationSystem Permit	RO	Substantial Revision w/o Antidegradation or Increased Permitted Capacity	N	5	2,500
Water - Domestic Wastewater Type I Residuals/Septage Management Facility Permit	NP	New Permit with Preliminary Design Report	N	5	15,000
Water - Domestic Wastewater Type I Residuals/Septage Management Facility Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	5	7,500

Domestic Wastewater Permitting Costs					
Permit Type Description	**Permit Subtype**	**Permit Subtype Description**	**General Permit**	**Period (Years)**	**Fee Amount**
Water - Domestic Wastewater Type I Residuals/Septage Management Facility Permit	NRL	Renewal Exceeding 5-Year Term	N	10	7,500
Water - Domestic Wastewater Type I Residuals/Septage Management Facility Permit	PD	Preliminary Design Report Review	N	5	7,500
Water - Domestic Wastewater Type I Residuals/Septage Management Facility Permit	RA	Substantial Revision involving Increased Permitted Capacity	N	5	7,500
Water - Domestic Wastewater Type I Residuals/Septage Management Facility Permit	RM	Substantial Revision not associated with substantial modifications	N	5	1,500
Water - Domestic Wastewater Type I Residuals/Septage Management Facility Permit	RO	Substantial Revision w/o Antidegradation or Increased Permitted Capacity	N	5	3,750
Water - Domestic Wastewater Type I Limited Wet Weather Discharge Permit	NP	New Permit with Preliminary Design Report	N	5	2,000
Water - Domestic Wastewater Type I Limited Wet Weather Discharge Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	5	1,000
Water - Domestic Wastewater Type I Limited Wet Weather Discharge Permit	PD	Preliminary Design Report Review	N	5	1,000
Water - Domestic Wastewater Type I Limited Wet Weather Discharge Permit	RA	Substantial Revision involving Antidegradation or Increased Permitted Capacity	N	5	1,000
Water - Domestic Wastewater Type I Limited Wet Weather Discharge Permit	RM	Substantial Revision not associated with substantial modifications	N	5	200
Water - Domestic Wastewater Type I Limited Wet Weather Discharge Permit	RO	Substantial Revision w/o Antidegradation or Increased Permitted Capacity	N	5	500
Water - Domestic Wastewater Type II Facility Permit	MR	Minor Revision to change monitoring requirements or modify treatment facility	N	5	300
Water - Domestic Wastewater Type II Facility Permit	SW	Surface Water Discharge/Outfall Only	N	5	1,000
Water - Domestic Wastewater Type II Wastewater Treatment Plant Permit	NP	New Permit with Preliminary Design Report	N	5	6,750
Water - Domestic Wastewater Type II Wastewater Treatment Plant Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	5	3,000
Water - Domestic Wastewater Type II Wastewater Treatment Plant Permit	NRL	Renewal Exceeding 5-Year Term	N	10	3,000
Water - Domestic Wastewater Type II Wastewater Treatment Plant Permit	PD	Preliminary Design Report Review	N	5	3,750
Water - Domestic Wastewater Type II Wastewater Treatment Plant Permit	RA	Substantial Revision involving Antidegradation or Increased Permitted Capacity	N	5	3,750

Domestic Wastewater Permitting Costs					
Permit Type Description	**Permit Subtype**	**Permit Subtype Description**	**General Permit**	**Period (Years)**	**Fee Amount**
Water - Domestic Wastewater Type II Wastewater Treatment Plant Permit	RM	Substantial Revision not associated with substantial modifications	N	5	600
Water - Domestic Wastewater Type II Wastewater Treatment Plant Permit	RO	Substantial Revision w/o Antidegradation or Increased Permitted Capacity	N	5	1,875
Water - Domestic Wastewater Type II Reuse/Land Application System Permit	NP	New Permit with Preliminary Design Report	N	5	6,750
Water - Domestic Wastewater Type II Reuse/Land Application System Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	5	3,000
Water - Domestic Wastewater Type II Reuse/Land Application System Permit	NRL	Renewal Exceeding 5-Year Term	N	10	3,000
Water - Domestic Wastewater Type II Reuse/Land Application System Permit	PD	Preliminary Design Report Review	N	5	3,750
Water - Domestic Wastewater Type II Reuse/Land Application System Permit	RA	Substantial Revision involving Antidegradation or Increased Permitted Capacity	N	5	3,750
Water - Domestic Wastewater Type II Reuse/Land Application System Permit	RM	Substantial Revision not associated with substantial modifications	N	5	600
Water - Domestic Wastewater Type II Reuse/Land Application System Permit	RO	Substantial Revision w/o Antidegradation or Increased Permitted Capacity	N	5	1,875
Water - Domestic Wastewater Type II Residuals/Septage Management Facility Permit	NP	New Permit with Preliminary Design Report	N	5	8,000
Water - Domestic Wastewater Type II Residuals/Septage Management Facility Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	5	4,000
Water - Domestic Wastewater Type II Residuals/Septage Management Facility Permit	NRL	Renewal Exceeding 5-Year Term	N	10	4,000
Water - Domestic Wastewater Type II Residuals/Septage Management Facility Permit	PD	Preliminary Design Report Review	N	5	4,000
Water - Domestic Wastewater Type II Residuals/Septage Management Facility Permit	RA	Substantial Revision involving Increased Permitted Capacity	N	5	4,000
Water - Domestic Wastewater Type II Residuals/Septage Management Facility Permit	RM	Substantial Revision not associated with substantial modifications	N	5	800
Water - Domestic Wastewater Type II Residuals/Septage Management Facility Permit	RO	Substantial Revision w/o Antidegradation or Increased Permitted Capacity	N	5	2,000
Water - Domestic Wastewater Type II Limited Wet Weather Discharge Permit	NP	New Permit with Preliminary Design Report	N	5	1,600
Water - Domestic Wastewater Type II Limited Wet Weather Discharge Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	5	800

Domestic Wastewater Permitting Costs					
Permit Type Description	**Permit Subtype**	**Permit Subtype Description**	**General Permit**	**Period (Years)**	**Fee Amount**
Water - Domestic Wastewater Type II Limited Wet Weather Discharge Permit	PD	Preliminary Design Report Review	N	5	800
Water - Domestic Wastewater Type II Limited Wet Weather Discharge Permit	RA	Substantial Revision involving Antidegradation or Increased Permitted Capacity	N	5	800
Water - Domestic Wastewater Type II Limited Wet Weather Discharge Permit	RM	Substantial Revision not associated with substantial modifications	N	5	160
Water - Domestic Wastewater Type II Limited Wet Weather Discharge Permit	RO	Substantial Revision w/o Antidegradation or Increased Permitted Capacity	N	5	400
Water - Domestic Wastewater Type III Facility Permit	MR	Minor Revision to change monitoring requirements or modify treatment facility	N	5	100
Water - Domestic Wastewater Type III Facility Permit	SW	Surface Water Discharge/Outfall Only	N	5	500
Water - Domestic Wastewater Type III Wastewater Treatment Plant Permit	GE	Generic Permit	Y	5	1,000
Water - Domestic Wastewater Type III Wastewater Treatment Plant Permit	NP	New Permit with Preliminary Design Report	N	5	2,200
Water - Domestic Wastewater Type III Wastewater Treatment Plant Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	5	1,000
Water - Domestic Wastewater Type III Wastewater Treatment Plant Permit	NRL	Renewal Exceeding 5-Year Term	N	10	1,000
Water - Domestic Wastewater Type III Wastewater Treatment Plant Permit	PD	Preliminary Design Report Review	N	5	1,200
Water - Domestic Wastewater Type III Wastewater Treatment Plant Permit	RA	Substantial Revision involving Antidegradation/Increased Permitted Capacity	N	5	1,200
Water - Domestic Wastewater Type III Wastewater Treatment Plant Permit	RM	Substantial Revision not associated with substantial modifications	N	5	200
Water - Domestic Wastewater Type III Wastewater Treatment Plant Permit	RO	Substantial Revision w/o Antidegradation or Increased Permitted Capacity	N	5	600
Water - Domestic Wastewater Type III Reuse/Land Application System Permit	NP	New Permit with Preliminary Design Report	N	5	2,200
Water - Domestic Wastewater Type III Reuse/Land Application System Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	5	1,000
Water - Domestic Wastewater Type III Reuse/Land Application System Permit	NRL	Renewal Exceeding 5-Year Term	N	10	1,000
Water - Domestic Wastewater Type III Reuse/Land Application System Permit	PD	Preliminary Design Report Review	N	5	1,200

Domestic Wastewater Permitting Costs					
Permit Type Description	**Permit Subtype**	**Permit Subtype Description**	**General Permit**	**Period (Years)**	**Fee Amount**
Water - Domestic Wastewater Type III Reuse/Land Application System Permit	RA	Substantial Revision involving Antidegradation/Increased Permitted Capacity	N	5	1,200
Water - Domestic Wastewater Type III Reuse/Land Application System Permit	RM	Substantial Revision not associated with substantial modifications	N	5	200
Water - Domestic Wastewater Type III Reuse/Land Application System Permit	RO	Substantial Revision w/o Antidegradation or Increased Permitted Capacity	N	5	600
Water - Domestic Wastewater Type III Residuals/Septage Management Facility Permit	NP	New Permit with Preliminary Design Report	N	5	2,200
Water - Domestic Wastewater Type III Residuals/Septage Management Facility Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	5	1,000
Water - Domestic Wastewater Type III Residuals/Septage Management Facility Permit	NRL	Renewal Exceeding 5-Year Term	N	10	1,000
Water - Domestic Wastewater Type III Residuals/Septage Management Facility Permit	PD	Preliminary Design Report Review	N	5	1,200
Water - Domestic Wastewater Type III Residuals/Septage Management Facility Permit	RA	Substantial Revision involving Increased Permitted Capacity	N	5	1,200
Water - Domestic Wastewater Type III Residuals/Septage Management Facility Permit	RM	Substantial Revision not associated with substantial modifications	N	5	200
Water - Domestic Wastewater Type III Residuals/Septage Management Facility Permit	RO	Substantial Revision w/o Antidegradation or Increased Permitted Capacity	N	5	600
Water - Domestic Wastewater Type III Limited Wet Weather Discharge Permit	NP	New Permit with Preliminary Design Report	N	5	1,200
Water - Domestic Wastewater Type III Limited Wet Weather Discharge Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	5	600
Water - Domestic Wastewater Type III Limited Wet Weather Discharge Permit	PD	Preliminary Design Report Review	N	5	600
Water - Domestic Wastewater Type III Limited Wet Weather Discharge Permit	RA	Substantial Revision involving Antidegradation/Increased Permitted Capacity	N	5	600
Water - Domestic Wastewater Type III Limited Wet Weather Discharge Permit	RM	Substantial Revision not associated with substantial modifications	N	5	120
Water - Domestic Wastewater Type III Limited Wet Weather Discharge Permit	RO	Substantial Revision w/o Antidegradation or Increased Permitted Capacity	N	5	300
Water - Domestic Wastewater Type III (less than 10,000 gpd) Facility Permit	MR	Minor Revision to change monitoring requirements or modify treatment facility	N	5	100

Domestic Wastewater Permitting Costs					
Permit Type Description	**Permit Subtype**	**Permit Subtype Description**	**General Permit**	**Period (Years)**	**Fee Amount**
Water - Domestic Wastewater Type III (less than 10,000 gpd) Facility Permit	SW	Surface Water Discharge/Outfall Only	N	5	500
Water - Domestic Wastewater Type III (less than 10,000 gpd) Wastewater Treatment Plant Permit	GE	Generic Permit	Y	5	600
Water - Domestic Wastewater Type III (less than 10,000 gpd) Wastewater Treatment Plant Permit	NP	New Permit with Preliminary Design Report	N	5	1,800
Water - Domestic Wastewater Type III (less than 10,000 gpd) Wastewater Treatment Plant Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	5	600
Water - Domestic Wastewater Type III (less than 10,000 gpd) Wastewater Treatment Plant Permit	NRL	Renewal Exceeding 5-Year Term	N	10	600
Water - Domestic Wastewater Type III (less than 10,000 gpd) Wastewater Treatment Plant Permit	PD	Preliminary Design Report Review	N	5	1,200
Water - Domestic Wastewater Type III (less than 10,000 gpd) Wastewater Treatment Plant Permit	RA	Substantial Revision involving Antidegradation or Increased Permitted Capacity	N	5	1,200
Water - Domestic Wastewater Type III (less than 10,000 gpd) Wastewater Treatment Plant Permit	RM	Substantial Revision not associated with substantial modifications	N	5	120
Water - Domestic Wastewater Type III (less than 10,000 gpd) Wastewater Treatment Plant Permit	RO	Substantial Revision w/o Antidegradation or Increased Permitted Capacity	N	5	600
Water - Domestic Wastewater Type III (less than 10,000 gpd) Reuse/Land Application System Permit	NP	New Permit with Preliminary Design Report	N	5	1,800
Water - Domestic Wastewater Type III (less than 10,000 gpd) Reuse/Land Application System Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	5	600
Water - Domestic Wastewater Type III (less than 10,000 gpd) Reuse/Land Application System Permit	NRL	Renewal Exceeding 5-Year Term	N	10	600
Water - Domestic Wastewater Type III (less than 10,000 gpd) Reuse/Land Application System Permit	PD	Preliminary Design Report Review	N	5	1,200
Water - Domestic Wastewater Type III (less than 10,000 gpd) Reuse/Land Application System Permit	RA	Substantial Revision involving Antidegradation or Increased Permitted Capacity	N	5	1,200
Water - Domestic Wastewater Type III (less than 10,000 gpd) Reuse/Land Application System Permit	RM	Substantial Revision not associated with substantial modifications	N	5	120
Water - Domestic Wastewater Type III (less than 10,000 gpd) Reuse/Land Application System Permit	RO	Substantial Revision w/o Antidegradation or Increased Permitted Capacity	N	5	600
Water - Domestic Wastewater Type III (less than 10,000 gpd) Residuals/Septage Management Facility Permit	NP	New Permit with Preliminary Design Report	N	5	1,800
Water - Domestic Wastewater Type III (less than 10,000 gpd) Residuals/Septage Management Facility Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	5	600

Domestic Wastewater Permitting Costs					
Permit Type Description	**Permit Subtype**	**Permit Subtype Description**	**General Permit**	**Period (Years)**	**Fee Amount**
Water - Domestic Wastewater Type III (less than 10,000 gpd) Residuals/Septage Management Facility Permit	NRL	Renewal Exceeding 5-Year Term	N	10	600
Water - Domestic Wastewater Type III (less than 10,000 gpd) Residuals/Septage Management Facility Permit	PD	Preliminary Design Report Review	N	5	1,200
Water - Domestic Wastewater Type III (less than 10,000 gpd) Residuals/Septage Management Facility Permit	RA	Substantial Revision involving Increased Permitted Capacity	N	5	1,200
Water - Domestic Wastewater Type III (less than 10,000 gpd) Residuals/Septage Management Facility Permit	RM	Substantial Revision not associated with substantial modifications	N	5	120
Water - Domestic Wastewater Type III (less than 10,000 gpd) Residuals/Septage Management Facility Permit	RO	Substantial Revision w/o Antidegradation or Increased Permitted Capacity	N	5	600
Water - Domestic Wastewater Type III (less than 10,000 gpd) Limited Wet Weather Discharge Permit	NP	New Permit with Preliminary Design Report	N	5	1,200
Water - Domestic Wastewater Type III (less than 10,000 gpd) Limited Wet Weather Discharge Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	5	600
Water - Domestic Wastewater Type III (less than 10,000 gpd) Limited Wet Weather Discharge Permit	PD	Preliminary Design Report Review	N	5	600
Water - Domestic Wastewater Type III (less than 10,000 gpd) Limited Wet Weather Discharge Permit	RA	Substantial Revision involving Antidegradation or Increased Permitted Capacity	N	5	600
Water - Domestic Wastewater Type III (less than 10,000 gpd) Limited Wet Weather Discharge Permit	RM	Substantial Revision not associated with substantial modifications	N	5	120
Water - Domestic Wastewater Type III (less than 10,000 gpd) Limited Wet Weather Discharge Permit	RO	Substantial Revision w/o Antidegradation or Increased Permitted Capacity	N	5	300
Domestic Wastewater Biosolids	MR	Minor Revision to change monitoring requirements or modify Treatment Facility	N	5	100
Domestic Wastewater Biosolids	MT	Minor Revision involving Transfer or Ownership or Time Extensions	N	5	50
Domestic Wastewater Biosolids	NP	New Permit with Preliminary Design Report	N	5	1,000
Domestic Wastewater Biosolids	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	5	1,000
Domestic Wastewater Biosolids	VO	Variance from permit conditions or standards other than water quality standards	N	5	2,000
Water - Domestic Wastewater Collection/Transmission System	CG	Collection System General Permit	Y	5	250
Water - Domestic Wastewater Collection/Transmission System	CL	Collection/Transmission System for less than 10 EDUs	N	5	300

Domestic Wastewater Permitting Costs					
Permit Type Description	**Permit Subtype**	**Permit Subtype Description**	**General Permit**	**Period (Years)**	**Fee Amount**
Water - Domestic Wastewater Collection/Transmission System	CM	Collection/Transmission System for 10 or more EDUs	N	5	500
Water - Domestic Wastewater Collection/Transmission System	MR	Minor Revision to change monitoring requirements or modify treatment facility	N	5	250
Water - Domestic Wastewater Collection/Transmission System	MT	Minor revision involving transfer of ownership	N	5	50
Water - Domestic Wastewater Facility Permit	GR	General Permit adding major user of reclaimed water	N	5	250
Water - Domestic Wastewater Facility Permit	GR	General Permit adding major user of reclaimed water	Y	5	250
Water - Domestic Wastewater Facility Permit	MM	Minor Revision requiring no fee	N	5	0
Water - Domestic Wastewater Facility Permit	MT	Minor Revision involving Transfer ofOwnership, or Time Extensions to Permit Conditions	N	5	50
Water - Domestic Wastewater Facility Permit	VC	Variance for site-specific alternative criteria	N	5	15,000
Water - Domestic Wastewater Facility Permit	VO	Variance from permit conditions or standards other than water quality standards	N	5	2,000
Water - Domestic Wastewater Facility Permit	VW	Variance from water quality standard	N	5	6,000
DW Gambling Vessel	RG	Registration	N	5	5,000

Industrial Wastewater Permitting Costs

Industrial Wastewater Permitting Costs				
Permit Type Description	**Permit Subtype**	**Permit Subtype Description**	**General Permit**	**Fee Amount**
Stormwater - Individual Stormwater Permit	MM	Minor Revision to Correct Minor Errors or Typographical Mistakes	N	0
Stormwater - Individual Stormwater Permit	MT	Minor Revision involving Transfer or Ownership or Time Extensions	N	0
Stormwater - Individual Stormwater Permit	NP	New Permit with Preliminary Design Report	N	1,000
Stormwater - Individual Stormwater Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	1,000
Stormwater - Individual Stormwater Permit	RM	Substantial Revision	N	0
Water - Industrial Wastewater Group 1, Non-surface Water Discharge Permit	NP	New Permit with Preliminary Design Report	N	12,000
Water - Industrial Wastewater Group 1, Non-surface Water Discharge Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	6,000
Water - Industrial Wastewater Group 1, Non-surface Water Discharge Permit	PD	Preliminary Design Report Review	N	6,000
Water - Industrial Wastewater Group 1, Non-surface Water Discharge Permit	RA	Substantial Revision involving Antidegradation or Increase Permitted Capacity	N	6,000
Water - Industrial Wastewater Group 1, Non-surface Water Discharge Permit	RM	Substantial Revision not associated with substantial modifications	N	1,200
Water - Industrial Wastewater Group 1, Non-surface Water Discharge Permit	RO	Substantial Revision w/o Antidegradation or increase in permitted capacity	N	3,000
Water - Industrial Wastewater Group 1, Surface Water Discharge Permit	NP	New Permit with Preliminary Design Report	N	15,000
Water - Industrial Wastewater Group 1, Surface Water Discharge Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	7,500
Water - Industrial Wastewater Group 1, Surface Water Discharge Permit	PD	Preliminary Design Report Review	N	7,500
Water - Industrial Wastewater Group 1, Surface Water Discharge Permit	RA	Substantial Revision involving Antidegradation or Increase Permitted Capacity	N	7,500
Water - Industrial Wastewater Group 1, Surface Water Discharge Permit	RM	Substantial Revision not associated with substantial modifications	N	1,500
Water - Industrial Wastewater Group 1, Surface Water Discharge Permit	RO	Substantial Revision w/o Antidegradation or increase in permitted capacity	N	3,750
Water - Industrial Wastewater Group 2, Non-surface Water Discharge Permit	NP	New Permit with Preliminary Design Report	N	8,000
Water - Industrial Wastewater Group 2, Non-surface Water Discharge Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	4,000
Water - Industrial Wastewater Group 2, Non-surface Water Discharge Permit	PD	Preliminary Design Report Review	N	4,000
Water - Industrial Wastewater Group 2, Non-surface Water Discharge Permit	RA	Substantial Revision involving Antidegradation or Increase Permitted Capacity	N	4,000

Industrial Wastewater Permitting Costs				
Permit Type Description	**Permit Subtype**	**Permit Subtype Description**	**General Permit**	**Fee Amount**
Water - Industrial Wastewater Group 2, Non-surface Water Discharge Permit	RM	Substantial Revision not associated with substantial modifications	N	800
Water - Industrial Wastewater Group 2, Non-surface Water Discharge Permit	RO	Substantial Revision w/o Antidegradation or increase in permitted capacity	N	2,000
Water - Industrial Wastewater Group 2, Surface Water Discharge Permit	NP	New Permit with Preliminary Design Report	N	10,000
Water - Industrial Wastewater Group 2, Surface Water Discharge Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	5,000
Water - Industrial Wastewater Group 2, Surface Water Discharge Permit	PD	Preliminary Design Report Review	N	5,000
Water - Industrial Wastewater Group 2, Surface Water Discharge Permit	RA	Substantial Revision involving Antidegradation or Increase Permitted Capacity	N	5,000
Water - Industrial Wastewater Group 2, Surface Water Discharge Permit	RM	Substantial Revision not associated with substantial modifications	N	1,000
Water - Industrial Wastewater Group 2, Surface Water Discharge Permit	RO	Substantial Revision w/o Antidegradation or increase in permitted capacity	N	2,500
Water - Industrial Wastewater Group 3, Non-surface Water Discharge Permit	NP	New Permit with Preliminary Design Report	N	4,000
Water - Industrial Wastewater Group 3, Non-surface Water Discharge Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	2,000
Water - Industrial Wastewater Group 3, Non-surface Water Discharge Permit	PD	Preliminary Design Report Review	N	2,000
Water - Industrial Wastewater Group 3, Non-surface Water Discharge Permit	RA	Substantial Revision involving Antidegradation or Increase Permitted Capacity	N	2,000
Water - Industrial Wastewater Group 3, Non-surface Water Discharge Permit	RM	Substantial Revision not associated with substantial modifications	N	400
Water - Industrial Wastewater Group 3, Non-surface Water Discharge Permit	RO	Substantial Revision w/o Antidegradation or increase in permitted capacity	N	1,000
Water - Industrial Wastewater Group 3, Surface Water Discharge Permit	NP	New Permit with Preliminary Design Report	N	5,000
Water - Industrial Wastewater Group 3, Surface Water Discharge Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	2,500
Water - Industrial Wastewater Group 3, Surface Water Discharge Permit	PD	Preliminary Design Report Review	N	2,500
Water - Industrial Wastewater Group 3, Surface Water Discharge Permit	RA	Substantial Revision involving Antidegradation or Increase Permitted Capacity	N	2,500
Water - Industrial Wastewater Group 3, Surface Water Discharge Permit	RM	Substantial Revision not associated with substantial modifications	N	500
Water - Industrial Wastewater Group 3, Surface Water Discharge Permit	RO	Substantial Revision w/o Antidegradation or increase in permitted capacity	N	1,250

Industrial Wastewater Permitting Costs				
Permit Type Description	**Permit Subtype**	**Permit Subtype Description**	**General Permit**	**Fee Amount**
Water - Industrial Wastewater Group 4A, Feedlots W/> Than Number Of Listed Animals Permit	NP	New Permit with Preliminary Design Report	N	5,000
Water - Industrial Wastewater Group 4A, Feedlots W/> Than Number Of Listed Animals Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	2,500
Water - Industrial Wastewater Group 4A, Feedlots W/> Than Number Of Listed Animals Permit	PD	Preliminary Design Report Review	N	2,500
Water - Industrial Wastewater Group 4A, Feedlots W/> Than Number Of Listed Animals Permit	RA	Substantial Revision involving Antidegradation or Increase Permitted Capacity	N	2,500
Water - Industrial Wastewater Group 4A, Feedlots W/> Than Number Of Listed Animals Permit	RM	Substantial Revision not associated with substantial modifications	N	500
Water - Industrial Wastewater Group 4A, Feedlots W/> Than Number Of Listed Animals Permit	RO	Substantial Revision w/o Antidegradation or increase in permitted capacity	N	1,250
Water - Industrial Wastewater Group 4B, Other Feedlots Permit	NP	New Permit with Preliminary Design Report	N	3,000
Water - Industrial Wastewater Group 4B, Other Feedlots Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	1,500
Water - Industrial Wastewater Group 4B, Other Feedlots Permit	PD	Preliminary Design Report Review	N	1,500
Water - Industrial Wastewater Group 4B, Other Feedlots Permit	RA	Substantial Revision involving Antidegradation or Increase Permitted Capacity	N	1,500
Water - Industrial Wastewater Group 4B, Other Feedlots Permit	RM	Substantial Revision not associated with substantial modifications	N	300
Water - Industrial Wastewater Group 4B, Other Feedlots Permit	RO	Substantial Revision w/o Antidegradation or increase in permitted capacity	N	750
Water - Industrial Wastewater Group 4C, Egg Production, Major Permit	NP	New Permit with Preliminary Design Report	N	5,000
Water - Industrial Wastewater Group 4C, Egg Production, Major Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	2,500
Water - Industrial Wastewater Group 4C, Egg Production, Major Permit	PD	Preliminary Design Report Review	N	2,500
Water - Industrial Wastewater Group 4C, Egg Production, Major Permit	RA	Substantial Revision involving Antidegradation or Increase Permitted Capacity	N	2,500
Water - Industrial Wastewater Group 4C, Egg Production, Major Permit	RM	Substantial Revision not associated with substantial modifications	N	500
Water - Industrial Wastewater Group 4C, Egg Production, Major Permit	RO	Substantial Revision w/o Antidegradation or increase in permitted capacity	N	1,250
Water - Industrial Wastewater Group 4D, Egg Production, Other Permit	NP	New Permit with Preliminary Design Report	N	3,000
Water - Industrial Wastewater Group 4D, Egg Production, Other Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	1,500
Water - Industrial Wastewater Group 4D, Egg Production, Other Permit	PD	Preliminary Design Report Review	N	1,500

Industrial Wastewater Permitting Costs				
Permit Type Description	**Permit Subtype**	**Permit Subtype Description**	**General Permit**	**Fee Amount**
Water - Industrial Wastewater Group 4D, Egg Production, Other Permit	RA	Substantial Revision involving Antidegradation or Increase Permitted Capacity	N	1,500
Water - Industrial Wastewater Group 4D, Egg Production, Other Permit	RM	Substantial Revision not associated with substantial modifications	N	300
Water - Industrial Wastewater Group 4D, Egg Production, Other Permit	RO	Substantial Revision w/o Antidegradation or increase in permitted capacity	N	750
Water - Industrial Wastewater Group 5A, Design Daily Discharge >500,000 GPD Permit	NP	New Permit with Preliminary Design Report	N	12,000
Water - Industrial Wastewater Group 5A, Design Daily Discharge >500,000 GPD Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	6,000
Water - Industrial Wastewater Group 5A, Design Daily Discharge >500,000 GPD Permit	PD	Preliminary Design Report Review	N	6,000
Water - Industrial Wastewater Group 5A, Design Daily Discharge >500,000 GPD Permit	RA	Substantial Revision involving Antidegradation or Increase Permitted Capacity	N	6,000
Water - Industrial Wastewater Group 5A, Design Daily Discharge >500,000 GPD Permit	RM	Substantial Revision not associated with substantial modifications	N	1,200
Water - Industrial Wastewater Group 5A, Design Daily Discharge >500,000 GPD Permit	RO	Substantial Revision w/o Antidegradation or increase in permitted capacity	N	3,000
Water - Industrial Wastewater Group 5B, Design Daily Discharge >100,000 to 500,000 GPD Permit	NP	New Permit with Preliminary Design Report	N	8,000
Water - Industrial Wastewater Group 5B, Design Daily Discharge >100,000 to 500,000 GPD Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	4,000
Water - Industrial Wastewater Group 5B, Design Daily Discharge >100,000 to 500,000 GPD Permit	PD	Preliminary Design Report Review	N	4,000
Water - Industrial Wastewater Group 5B, Design Daily Discharge >100,000 to 500,000 GPD Permit	RA	Substantial Revision involving Antidegradation or Increase Permitted Capacity	N	4,000
Water - Industrial Wastewater Group 5B, Design Daily Discharge >100,000 to 500,000 GPD Permit	RM	Substantial Revision not associated with substantial modifications	N	800
Water - Industrial Wastewater Group 5B, Design Daily Discharge >100,000 to 500,000 GPD Permit	RO	Substantial Revision w/o Antidegradation or increase in permitted capacity	N	2,000
Water - Industrial Wastewater Group 5C, Design Daily Discharge >10,000 to 100,000 GPD Permit	NP	New Permit with Preliminary Design Report	N	4,000
Water - Industrial Wastewater Group 5C, Design Daily Discharge >10,000 to 100,000 GPD Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	2,000
Water - Industrial Wastewater Group 5C, Design Daily Discharge >10,000 to 100,000 GPD Permit	PD	Preliminary Design Report Review	N	2,000
Water - Industrial Wastewater Group 5C, Design Daily Discharge >10,000 to 100,000 GPD Permit	RA	Substantial Revision involving Antidegradation or Increase Permitted Capacity	N	2,000
Water - Industrial Wastewater Group 5C, Design Daily Discharge >10,000 to 100,000 GPD Permit	RM	Substantial Revision not associated with substantial modifications	N	400

Industrial Wastewater Permitting Costs				
Permit Type Description	**Permit Subtype**	**Permit Subtype Description**	**General Permit**	**Fee Amount**
Water - Industrial Wastewater Group 5C, Design Daily Discharge >10,000 to 100,000 GPD Permit	RO	Substantial Revision w/o Antidegradation or increase in permitted capacity	N	1,000
Water - Industrial Wastewater Group 5d, Design Daily Discharge 10,000 or Less GPD Permit	NP	New Permit with Preliminary Design Report	N	1,500
Water - Industrial Wastewater Group 5d, Design Daily Discharge 10,000 or Less GPD Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	750
Water - Industrial Wastewater Group 5d, Design Daily Discharge 10,000 or Less GPD Permit	PD	Preliminary Design Report Review	N	750
Water - Industrial Wastewater Group 5d, Design Daily Discharge 10,000 or Less GPD Permit	RA	Substantial Revision involving Antidegradation or Increase Permitted Capacity	N	750
Water - Industrial Wastewater Group 5d, Design Daily Discharge 10,000 or Less GPD Permit	RM	Substantial Revision not associated with substantial modifications	N	250
Water - Industrial Wastewater Group 5d, Design Daily Discharge 10,000 or Less GPD Permit	RO	Substantial Revision w/o Antidegradation or increase in permitted capacity	N	375
Water - Industrial Wastewater Group 6A, BTU/HR Heat Loss >100 Million Permit	NP	New Permit with Preliminary Design Report	N	12,000
Water - Industrial Wastewater Group 6A, BTU/HR Heat Loss >100 Million Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	6,000
Water - Industrial Wastewater Group 6A, BTU/HR Heat Loss >100 Million Permit	PD	Preliminary Design Report Review	N	6,000
Water - Industrial Wastewater Group 6A, BTU/HR Heat Loss >100 Million Permit	RA	Substantial Revision involving Antidegradation or Increase Permitted Capacity	N	6,000
Water - Industrial Wastewater Group 6A, BTU/HR Heat Loss >100 Million Permit	RM	Substantial Revision not associated with substantial modifications	N	1,200
Water - Industrial Wastewater Group 6A, BTU/HR Heat Loss >100 Million Permit	RO	Substantial Revision w/o Antidegradation or increase in permitted capacity	N	3,000
Water - Industrial Wastewater Group 6B, >20 Million BTU/HR Heat Loss Up to 100 Million Permit	NP	New Permit with Preliminary Design Report	N	6,000
Water - Industrial Wastewater Group 6B, >20 Million BTU/HR Heat Loss Up to 100 Million Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	3,000
Water - Industrial Wastewater Group 6B, >20 Million BTU/HR Heat Loss Up to 100 Million Permit	PD	Preliminary Design Report Review	N	3,000
Water - Industrial Wastewater Group 6B, >20 Million BTU/HR Heat Loss Up to 100 Million Permit	RA	Substantial Revision involving Antidegradation or Increase Permitted Capacity	N	3,000
Water - Industrial Wastewater Group 6B, >20 Million BTU/HR Heat Loss Up to 100 Million Permit	RM	Substantial Revision not associated with substantial modifications	N	600
Water - Industrial Wastewater Group 6B, >20 Million BTU/HR Heat Loss Up to 100 Million Permit	RO	Substantial Revision w/o Antidegradation or increase in permitted capacity	N	1,500
Water - Industrial Wastewater Group 6C, >1 Million BTU/HR Heat Loss Up to 20 Million Permit	NP	New Permit with Preliminary Design Report	N	3,000

Industrial Wastewater Permitting Costs				
Permit Type Description	**Permit Subtype**	**Permit Subtype Description**	**General Permit**	**Fee Amount**
Water - Industrial Wastewater Group 6C, >1 Million BTU/HR Heat Loss Up to 20 Million Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	1,500
Water - Industrial Wastewater Group 6C, >1 Million BTU/HR Heat Loss Up to 20 Million Permit	PD	Preliminary Design Report Review	N	1,500
Water - Industrial Wastewater Group 6C, >1 Million BTU/HR Heat Loss Up to 20 Million Permit	RA	Substantial Revision involving Antidegradation or Increase Permitted Capacity	N	1,500
Water - Industrial Wastewater Group 6C, >1 Million BTU/HR Heat Loss Up to 20 Million Permit	RM	Substantial Revision not associated with substantial modifications	N	300
Water - Industrial Wastewater Group 6C, >1 Million BTU/HR Heat Loss Up to 20 Million Permit	RO	Substantial Revision w/o Antidegradation or increase in permitted capacity	N	750
Water - Industrial Wastewater Group 6D, 1 Million BTU/HR Heat Loss or Less Permit	NP	New Permit with Preliminary Design Report	N	1,000
Water - Industrial Wastewater Group 6D, 1 Million BTU/HR Heat Loss or Less Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	500
Water - Industrial Wastewater Group 6D, 1 Million BTU/HR Heat Loss or Less Permit	PD	Preliminary Design Report Review	N	500
Water - Industrial Wastewater Group 6D, 1 Million BTU/HR Heat Loss or Less Permit	RA	Substantial Revision involving Antidegradation or Increase Permitted Capacity	N	500
Water - Industrial Wastewater Group 6D, 1 Million BTU/HR Heat Loss or Less Permit	RM	Substantial Revision not associated with substantial modifications	N	250
Water - Industrial Wastewater Group 6D, 1 Million BTU/HR Heat Loss or Less Permit	RO	Substantial Revision w/o Antidegradation or increase in permitted capacity	N	250
Water - Industrial Wastewater Group 7A, Design Daily Flow >500,000 GPD Permit	NP	New Permit with Preliminary Design Report	N	10,000
Water - Industrial Wastewater Group 7A, Design Daily Flow >500,000 GPD Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	5,000
Water - Industrial Wastewater Group 7A, Design Daily Flow >500,000 GPD Permit	PD	Preliminary Design Report Review	N	5,000
Water - Industrial Wastewater Group 7A, Design Daily Flow >500,000 GPD Permit	RA	Substantial Revision involving Antidegradation or Increase Permitted Capacity	N	5,000
Water - Industrial Wastewater Group 7A, Design Daily Flow >500,000 GPD Permit	RM	Substantial Revision not associated with substantial modifications	N	1,000
Water - Industrial Wastewater Group 7A, Design Daily Flow >500,000 GPD Permit	RO	Substantial Revision w/o Antidegradation or increase in permitted capacity	N	2,500
Water - Industrial Wastewater Group 7B, Design Daily Flow >100,000 Up to 500,000 GPD Permit	NP	New Permit with Preliminary Design Report	N	6,000
Water - Industrial Wastewater Group 7B, Design Daily Flow >100,000 Up to 500,000 GPD Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	3,000
Water - Industrial Wastewater Group 7B, Design Daily Flow >100,000 Up to 500,000 GPD Permit	PD	Preliminary Design Report Review	N	3,000

Industrial Wastewater Permitting Costs				
Permit Type Description	**Permit Subtype**	**Permit Subtype Description**	**General Permit**	**Fee Amount**
Water - Industrial Wastewater Group 7B, Design Daily Flow >100,000 Up to 500,000 GPD Permit	RA	Substantial Revision involving Antidegradation or Increase Permitted Capacity	N	3,000
Water - Industrial Wastewater Group 7B, Design Daily Flow >100,000 Up to 500,000 GPD Permit	RM	Substantial Revision not associated with substantial modifications	N	600
Water - Industrial Wastewater Group 7B, Design Daily Flow >100,000 Up to 500,000 GPD Permit	RO	Substantial Revision w/o Antidegradation or increase in permitted capacity	N	1,500
Water - Industrial Wastewater Group 7C, Design Daily Flow >50,000 Up to 100,000 GPD Permit	NP	New Permit with Preliminary Design Report	N	4,000
Water - Industrial Wastewater Group 7C, Design Daily Flow >50,000 Up to 100,000 GPD Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	2,000
Water - Industrial Wastewater Group 7C, Design Daily Flow >50,000 Up to 100,000 GPD Permit	PD	Preliminary Design Report Review	N	2,000
Water - Industrial Wastewater Group 7C, Design Daily Flow >50,000 Up to 100,000 GPD Permit	RA	Substantial Revision involving Antidegradation or Increase Permitted Capacity	N	2,000
Water - Industrial Wastewater Group 7C, Design Daily Flow >50,000 Up to 100,000 GPD Permit	RM	Substantial Revision not associated with substantial modifications	N	400
Water - Industrial Wastewater Group 7C, Design Daily Flow >50,000 Up to 100,000 GPD Permit	RO	Substantial Revision w/o Antidegradation or increase in permitted capacity	N	1,000
Water - Industrial Wastewater Group 7D, Design Daily Flow 50,000 or Less GPD Permit	NP	New Permit with Preliminary Design Report	N	2,000
Water - Industrial Wastewater Group 7D, Design Daily Flow 50,000 or Less GPD Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	1,000
Water - Industrial Wastewater Group 7D, Design Daily Flow 50,000 or Less GPD Permit	PD	Preliminary Design Report Review	N	1,000
Water - Industrial Wastewater Group 7D, Design Daily Flow 50,000 or Less GPD Permit	RA	Substantial Revision involving Antidegradation or Increase Permitted Capacity	N	1,000
Water - Industrial Wastewater Group 7D, Design Daily Flow 50,000 or Less GPD Permit	RM	Substantial Revision not associated with substantial modifications	N	250
Water - Industrial Wastewater Group 7D, Design Daily Flow 50,000 or Less GPD Permit	RO	Substantial Revision w/o Antidegradation or increase in permitted capacity	N	500
Water - Industrial Wastewater Group 8A, Design Daily Flow >500,000 GPD Permit	NP	New Permit with Preliminary Design Report	N	8,000
Water - Industrial Wastewater Group 8A, Design Daily Flow >500,000 GPD Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	4,000
Water - Industrial Wastewater Group 8A, Design Daily Flow >500,000 GPD Permit	PD	Preliminary Design Report Review	N	4,000
Water - Industrial Wastewater Group 8A, Design Daily Flow >500,000 GPD Permit	RA	Substantial Revision involving Increase in Permitted Capacity	N	4,000
Water - Industrial Wastewater Group 8A, Design Daily Flow >500,000 GPD Permit	RM	Substantial Revision not associated with substantial modifications	N	800

Industrial Wastewater Permitting Costs				
Permit Type Description	**Permit Subtype**	**Permit Subtype Description**	**General Permit**	**Fee Amount**
Water - Industrial Wastewater Group 8A, Design Daily Flow >500,000 GPD Permit	RO	Substantial Revision w/o increase in permitted capacity	N	2,000
Water - Industrial Wastewater Group 8B, Design Daily Flow >100,000 to 500,000 GPD Permit	NP	New Permit with Preliminary Design Report	N	5,000
Water - Industrial Wastewater Group 8B, Design Daily Flow >100,000 to 500,000 GPD Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	2,500
Water - Industrial Wastewater Group 8B, Design Daily Flow >100,000 to 500,000 GPD Permit	PD	Preliminary Design Report Review	N	2,500
Water - Industrial Wastewater Group 8B, Design Daily Flow >100,000 to 500,000 GPD Permit	RA	Substantial Revision involving Increase in Permitted Capacity	N	2,500
Water - Industrial Wastewater Group 8B, Design Daily Flow >100,000 to 500,000 GPD Permit	RM	Substantial Revision not associated with substantial modifications	N	500
Water - Industrial Wastewater Group 8B, Design Daily Flow >100,000 to 500,000 GPD Permit	RO	Substantial Revision w/o increase in permitted capacity	N	1,250
Water - Industrial Wastewater Group 8C, Design Daily Flow >50,000 to 100,000 GPD Permit	NP	New Permit with Preliminary Design Report	N	3,000
Water - Industrial Wastewater Group 8C, Design Daily Flow >50,000 to 100,000 GPD Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	1,500
Water - Industrial Wastewater Group 8C, Design Daily Flow >50,000 to 100,000 GPD Permit	PD	Preliminary Design Report Review	N	1,500
Water - Industrial Wastewater Group 8C, Design Daily Flow >50,000 to 100,000 GPD Permit	RA	Substantial Revision involving Increase in Permitted Capacity	N	1,500
Water - Industrial Wastewater Group 8C, Design Daily Flow >50,000 to 100,000 GPD Permit	RM	Substantial Revision not associated with substantial modifications	N	300
Water - Industrial Wastewater Group 8C, Design Daily Flow >50,000 to 100,000 GPD Permit	RO	Substantial Revision w/o increase in permitted capacity	N	750
Water - Industrial Wastewater Group 8D, Design Daily Flow of 50,000 or Less GPD Permit	NP	New Permit with Preliminary Design Report	N	1,500
Water - Industrial Wastewater Group 8D, Design Daily Flow of 50,000 or Less GPD Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	750
Water - Industrial Wastewater Group 8D, Design Daily Flow of 50,000 or Less GPD Permit	PD	Preliminary Design Report Review	N	750
Water - Industrial Wastewater Group 8D, Design Daily Flow of 50,000 or Less GPD Permit	RA	Substantial Revision involving Increase in Permitted Capacity	N	750
Water - Industrial Wastewater Group 8D, Design Daily Flow of 50,000 or Less GPD Permit	RM	Substantial Revision not associated with substantial modifications	N	250
Water - Industrial Wastewater Group 8D, Design Daily Flow of 50,000 or Less GPD Permit	RO	Substantial Revision w/o increase in permitted capacity	N	375
Water - Industrial Wastewater Group 9A, Recycling >10,000 GPD Permit	NP	New Permit with Preliminary Design Report	N	1,000

Industrial Wastewater Permitting Costs				
Permit Type Description	**Permit Subtype**	**Permit Subtype Description**	**General Permit**	**Fee Amount**
Water - Industrial Wastewater Group 9A, Recycling >10,000 GPD Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	500
Water - Industrial Wastewater Group 9A, Recycling >10,000 GPD Permit	PD	Preliminary Design Report Review	N	500
Water - Industrial Wastewater Group 9A, Recycling >10,000 GPD Permit	RA	Substantial Revision involving Increase in Permitted Capacity	N	500
Water - Industrial Wastewater Group 9A, Recycling >10,000 GPD Permit	RM	Substantial Revision not associated with substantial modifications	N	250
Water - Industrial Wastewater Group 9A, Recycling >10,000 GPD Permit	RO	Substantial Revision w/o increase in permitted capacity	N	250
Water - Industrial Wastewater Group 9B, Recycling 10,000 or Less GPD Permit	NP	New Permit with Preliminary Design Report	N	200
Water - Industrial Wastewater Group 9B, Recycling 10,000 or Less GPD Permit	NR	Permit Renewal or New Permit w/o Preliminary Design Report	N	100
Water - Industrial Wastewater Group 9B, Recycling 10,000 or Less GPD Permit	PD	Preliminary Design Report Review	N	100
Water - Industrial Wastewater Group 9B, Recycling 10,000 or Less GPD Permit	RA	Substantial Revision involving Increase in Permitted Capacity	N	100
Water - Industrial Wastewater Group 9B, Recycling 10,000 or Less GPD Permit	RM	Substantial Revision not associated with substantial modifications	N	50
Water - Industrial Wastewater Group 9B, Recycling 10,000 or Less GPD Permit	RO	Substantial Revision w/o increase in permitted capacity	N	50
Water - Industrial Wastewater Group 10A - 'No Discharge' Facility Permit	MR	Minor Revision to change monitoring requirements or modify treatment facility	N	100
Water - Industrial Wastewater Group 10B - Other Facility Permit	MR	Minor Revision to change monitoring requirements or modify treatment facility	N	250
Water - Industrial Wastewater Concrete Batch Plant Permit	GE	Generic Permit	N	500
IW Citrus Packing House	GE	Generic Permit	N	500
Water - Industrial Wastewater Collection/Transmission System Permit	CT	Permit for Collection/Transmission System	N	500
IW Dewatering Operations	EGE	IW Generic Dewatering Electronic Permit	N	100
Water - Industrial Wastewater Facility Permit	GC	General Permit requiring PG or PE certification	Y	500
Water - Industrial Wastewater Facility Permit	GN	General Permit NOT requiring PG or PE certification	Y	100
Water - Industrial Wastewater Facility Permit	MM	Minor Revision to correct Minor Errors or Typographical Mistakes	N	0
Water - Industrial Wastewater Facility Permit	MT	Minor Revision involving Transfer of Ownership or Time Extensions	N	50
Water - Industrial Wastewater Facility Permit	VC	Variance for site-specific alternative criteria	N	15,000
Water - Industrial Wastewater Facility Permit	VO	Variance from permitting standards or conditions other than water quality standards	N	2,000
Water - Industrial Wastewater Facility Permit	VW	Variance or exemption from water quality standard	N	6,000

Industrial Wastewater Permitting Costs				
Permit Type Description	**Permit Subtype**	**Permit Subtype Description**	**General Permit**	**Fee Amount**
Pesticide NPDES	GE	Generic Permit	N	500
Water - Industrial Wastewater Petroleum Cleanup Site Permit	GE	Generic Permit	N	100