# Polk County NPDES Phase I MS4 Annual Report

## Term 3 – Year 2

## Permit No. FLS000015

March 2014


Prepared for:

Florida Department of Transportation - District One
801 North Broadway Avenue
Bartow, Florida 33831

ENGINEERING
ENVIRONMENTAL
ECOLOGICAL

March 28, 2014

Mr. Edward Smith
Florida Department of Environmental Protection
Mail Station 2500
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

**Subject:** **FDOT District One – Polk County Phase I NPDES MS4 Annual Report**
**Term 3 – Year 2**
**Permit Number FLS000015**
**E Sciences Project No. 1-1464-033**

Dear Mr. Smith:

Attached is the annual report form for the Polk County Phase I NPDES Municipal Separate Storm Sewer System (MS4) Permit, Permit Number FLS000015, for Florida Department of Transportation (FDOT) District One. The form is for annual report Term 3 – Year 2, a reporting time period of October 1, 2012 through September 30, 2013. Additionally, FDOT's water quality monitoring program has been included for your review and use. If you need any other information, please do not hesitate to contact us.

Sincerely,
**E SCIENCES, INCORPORATED**

Leilani Farrell
Staff Scientist

Robert Potts
Project Manager

Attachment

cc: Robert Dwyer, FDOT
File

**E Sciences,** INCORPORATED
34 East Pine Street • Orlando, FL 32801
ph 407-481-9006 fax 407-481-9627
www.esciencesinc.com

**INSTRUCTIONS – DEP FORM 62-624.600(2)**
**ANNUAL REPORT FORM FOR INDIVIDUAL NPDES PERMITS FOR**
**MUNICIPAL SEPARATE STORM SEWER SYSTEMS**

**Who Must Submit This Annual Report Form?**

Operators of municipal separate storm sewer systems (MS4s) that are covered by an individual NPDES stormwater permit pursuant to Rule 62-624, F.A.C. must submit this form. Each permitted operator must individually complete and submit this form, even if the operator is covered under a permit with multiple co-permittees or has established an interlocal agreement with one or more co-permittees.

**When to Submit This Annual Report Form?**

This form must be fully completed and submitted for each year of coverage under the NPDES stormwater permit term. The Year 1 Annual Report must cover the twelve-month period beginning on the effective date of the permit and is due six months after the first anniversary of the date of permit issuance. All subsequent annual reports are due six months after the anniversary of the effective date of the permit.

**Where To Submit This Annual Report Form?**

This form and any REQUIRED attachments must be sent by email to the NPDES Stormwater Program Administrator or to the MS4 coordinator. Their names and email addresses are available at: http://www.dep.state.fl.us/water/stormwater/npdes/contacts.htm. If files are larger than 10mb, materials may be placed on the NPDES Stormwater ftp site at: ftp://ftp.dep.state.fl.us/pub/NPDES_Stormwater/. After uploading the ANNUAL REPORT files, an email must be sent to the MS4 coordinator or the NPDES program administrator notifying them the report is ready for downloading. Do not submit any materials not specifically required to be submitted as per Section V of this form.

**Section I: BACKGROUND INFORMATION**

Row A — Provide the name of the governmental entity submitting this form. For example, "City of Lauderhill."

Row B — Provide the name of the permit as it appears on the first page of your permit. For example, "Broward County MS4." The permit name will not necessarily be the same name provided in Row A if the permit covers multiple co-permittees. If the name of the permit is the same name provided in Row A, repeat the name in Row B – do not leave the row blank.

Row C — Provide the last two digits of your permit number as it appears on the first page of your permit.

Row D — Indicate which permit year the annual report covers. If the permit year is beyond Year 5, check the last box and provide the appropriate permit year number.

Row E — Indicate the twelve-month period the annual report covers. Provide the month and year for the beginning of the period and the month and year for the end of the period. For example, "March/2003 through February/2004." Do not provide the day.

Row F — Provide contact information for your Responsible Authority. The definition of a Responsible Authority can be found at Rule 62-620.305, F.A.C.

Row G — Provide contact information for the Designated Stormwater Management Program Contact if it isn't the same person as the Responsible Authority identified in Row F, otherwise leave this section blank. The Stormwater Management Program Contact is the technical person that oversees the stormwater program and is the primary contact for when the Department has questions about the annual report, is scheduling an annual inspection, or needs to discuss miscellaneous issues concerning implementation of the permit.

**Section II: MS4 MAJOR OUTFALL INVENTORY**

- This section is required to be completed in all permit years EXCEPT Year 1. In Year 1, you are required to provide an inventory and a map of all known major outfalls, in accordance with Rule 62-624.600(2)(a), F.A.C. In all subsequent permit years, you need to only provide any updates to the inventory by completing this section.

- The definition of a "major" outfall can be found at Rule 62-624.200(5), F.A.C.

- Row A — This row contains two separate questions. First, provide the number of outfalls ADDED to the outfall inventory in the current reporting year. If no outfalls were added, insert a "0" – do not leave it blank. Second, indicate whether the number of outfalls added includes any "non-major" outfalls by checking one of the following:
  - "Yes" if the number includes non-major outfalls
  - "No" if the number does not include non-major outfalls, or
  - "Not Applicable" if no new outfalls were added to the inventory.

- Row B — Provide the number of outfalls REMOVED from the outfall inventory in the current reporting year. If no outfalls were removed, insert "0" – do not leave it blank. Then indicate whether the number of outfalls removed includes any "non-major" outfalls by checking one of the following:
  - "Yes" if the number includes non-major outfalls
  - "No" if the number does not include non-major outfalls, or
  - "Not Applicable" if no outfalls were removed from the inventory.

- Row C — Indicate whether the change in the total number of outfalls in the inventory is due to land being either annexed or vacated during the reporting year by checking one of the following:
  - "Yes" if the change is due to lands annexed, lands vacated, or lands both annexed and vacated.
  - "No" if the change is not due to lands annexed or vacated, or
  - "Not Applicable" if no outfalls were reported in Rows A or B as added or removed from the outfall inventory.

**Section III: MONITORING PROGRAM**

**This is the ONLY section of this form that you may reference another permittee's annual report to partially satisfy your reporting requirements**, but only if that permittee is fully reporting on the monitoring program as required by this form**.** In you choose to reference another permittee's annual report, you must include the name of the permittee in Row A – do not leave this section blank.

Row A — Provide a brief summary of the status of monitoring plan implementation, including any problems encountered; or, if applicable, include the name of the permittee whose annual report you are referencing for the necessary monitoring information.

Row B — Each permittee must discuss the monitoring results as it relates to the implementation and effectiveness of their SWMP.

Row C — Attach to the form a summary of the monitoring data as required under Rule 62-624.600(2)(c), F.A.C. Do not provide the monitoring raw data.

**Section IV: FISCAL ANALYSIS**

Row A — Provide a single figure that most accurately represents the total expenditures for the NPDES stormwater management program (SWMP) for the current reporting year. Be sure to include the costs of all departments involved (SWMP-related activities only) and of any contracts or interlocal agreements.

Row B — Provide a single figure that most accurately represents the total budget for the NPDES stormwater management program for the subsequent reporting year. Be sure to include the budgets of all the departments involved (SWMP-related activities only) and of any contracts or interlocal agreements.

**Section V: MATERIALS TO BE SUBMITTED WITH THIS ANNUAL REPORT FORM**

Use the checklist in this section to determine what is required to be attached to this form. Do not submit any materials not required, such as records or logs of SWMP activities, monitoring raw data, public outreach materials, or pesticide and herbicide applicator certifications.

- For each item listed in the checklist, indicate whether it is "Attached" or "N/A" (Not Applicable). Do not leave any item unchecked.

- For the first item listed, carefully read Part III.A of your permit. In this section of your permit, certain annual reporting requirements are specified. The requirements include submitting certain quantifiable data (which are to be included in Section VII of this form) and may also include submitting non-quantifiable information, such as a copy of any stormwater-related updates to your local codes/ordinances.

- For the second item listed, indicate whether you attached the monitoring data summary requested in Section III.C of the form. If you referenced a co-permittee's annual report for the monitoring information required in Section III, check the "N/A" box.

- For the third item listed, indicate whether you attached the major outfall inventory and a map of the major outfall locations in accordance with Rule 62-624.600(2)(a), F.A.C. This item is only applicable in Year 1. For all other reporting years, check the "N/A" box.

- For the fourth item listed, indicate whether you attached the estimates of pollutant loadings and event mean concentrations as required under Part V.A of your permit and in accordance with Rule 62-624.600(2)(b), F.A.C. This item is only applicable in Year 3. For all other reporting years, check the "N/A" box.

- For the fifth item listed, indicated whether you attached your permit re-application in accordance with the re-application requirements in Rule 62-624.420(2), F.A.C. This item is only applicable in Year 4. For all other reporting years, check the "N/A" box.

**Section VI: CERTIFICATION STATEMENT AND SIGNATURE**

The Responsible Authority listed in Section I.F of this form must sign the certification statement provided in this section, in accordance with Rule 62-620.305, F.A.C. The annual report form will be returned to the permittee if the required signature is not included. If you choose to submit the annual report and attachments electronically, a signed paper copy of this section must also be submitted.

**Section VII: STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE**

Column A — Columns B through F must be completed for each SWMP element indicated by the permit citation in Column A. No information is to be inserted by the permittee in this column.

Column B — Provide a summary of the permit requirements in Part III.A of your permit for each SWMP element and, underneath the summary, list the quantifiable SWMP activities related to the requirements. The particular quantifiable SWMP activities are specific to each permittee, but must include, at a minimum, the quantifiable activities that are required by the permit to be reported.

Column C — Provide a number representing the activities performed in the current reporting year for each of the quantifiable SWMP activities you listed in Column B. This column may not be left blank for any of the quantifiable SWMP activities listed in Column B.

Column D — Provide a title or description of the record that documents each number you provided in Column C. For example, "Daily Work Orders," "Illicit Complaint/Investigation Forms and Log," or "Construction Inspection Checklists and Log." If the activity is recorded entirely in an electronic database system, you may provide the name of the system, such as the "Hansen Model." This column may not be left blank for any of the numbers provided in Column C.

Column E — Provide the name of your department/division that is responsible for performing each of the SWMP activities listed in Column B, or provide the name of the co-permittee, private contractor, or other entity that is performing the activities on your behalf. Try to be as specific as possible by including, for example, the name of the employee responsible for a particular SWMP activity if only that employee can answer any questions concerning the activity. This column may not be left blank for any of the SWMP activities listed in Column B.

Column F — This column allows for any brief comments you determine are necessary to explain the information you provided in Columns C, D, and E.

**Section VIII: EVALUATION OF THE STORMWATER MANAGEMENT PROGRAM**

For each section of your permit, discuss the strengths, weaknesses, and needed SWMP revisions to maximize the effectiveness of your SWMP in reducing stormwater pollutant loadings.

**Section IX: CHANGES TO STORMWATER MANAGEMENT PROGRAM (SWMP) ACTIVITIES**

This section is to be completed, as applicable, in all permit years EXCEPT Year 4. In Year 4, any desired changes to your SWMP activities should be included in your permit re-application that is to be attached to the Year 4 Annual Report Form.

Row A — If applicable, include in this row any requested changes to your SWMP activities that are established as specific requirements under Part III.A of your permit. Provide the permit citation/SWMP element that corresponds to the

SWMP activity you want changed, describe the requested change, and provide a rationale for the change. Such changes cannot be implemented without prior approval from the Department and may require a permit revision in accordance with Rule 62-620.325, F.A.C.

Row B — If applicable, include in this row any changes to your SWMP activities that are NOT established as specific requirements under Part III.A of your permit but rather are activities at the discretion of the permittee. Provide the permit citation/SWMP element that corresponds to the SWMP activity you have changed, describe the change, and provide a rationale for the change.

**Checklist A: ATTACHMENTS TO BE SUBMITTED WITH ANNUAL REPORTS**

This checklist is provided to make it easier to remember what attachments must be submitted with each Annual Report. For each line, please check the appropriate box and insert the Attachment Number and Attachment Title in the appropriate boxes.

**Checklist B: REQUIRED ANNUAL REVIEW OF WRITTEN SOPs AND PLANS**

For each line, please check the appropriate boxes. If revisions are made to the Proactive Illicit Discharge Plan or the Construction Inspection Plan, please submit these with your Annual Report for review and approval by the Department.

**REMINDER LIST OF TMDL REPORTS TO BE SUBMITTED SEPARATELY FROM AN ANNUAL REPORT**

Please remember to submit the various reports required by Part VIII.B. for water bodies that have adopted TMDLs by their respective due dates.

**BASIN MANAGEMENT ACTION PLAN (BMAP) REPORTING**

If you have water bodies with adopted TMDLs and BMAPs that your MS4 discharges, please enter the title(s) of the applicable BMAP(s) and the date on which the last Annual Progress report was submitted to the Department's Watershed Planning and Coordination Section.

# ANNUAL REPORT FORM FOR INDIVIDUAL NPDES PERMITS FOR MUNICIPAL SEPARATE STORM SEWER SYSTEMS (RULE 62-624.600(2), F.A.C.)

- This Annual Report Form must be completed and submitted to the Department to satisfy the annual reporting requirements established in Rule 62-621.600, F.A.C.
- Submit this fully completed and signed form and any REQUIRED attachments by email to the NPDES Stormwater Program Administrator or to the MS4 coordinator. Their names and email addresses are available at: http://www.dep.state.fl.us/water/stormwater/npdes/contacts.htm. If files are larger than 10mb, materials may be placed on the NPDES Stormwater ftp site at: ftp://ftp.dep.state.fl.us/pub/NPDES_Stormwater/. After uploading the ANNUAL REPORT files, an email must be sent to the MS4 coordinator or the NPDES program administrator notifying them the report is ready for downloading
- Refer to the Form Instructions for guidance on completing each section.
- **Please print or type information in the appropriate areas below**

| **SECTION I. BACKGROUND INFORMATION** | | | |
|---|---|---|---|
| **A.** | Permittee Name FDOT District 1 | | |
| **B.** | Permit Name: Polk County Municipal Separate Storm Sewer System | | |
| **C.** | Permit Number: FLS000015-003 (Cycle 3) | | |
| **D.** | Annual Report Year: ☐ Year 1 ☒ Year 2 ☐ Year 3 ☐ Year 4 ☐ Year 5 ☐ Other, specify Year: | | |
| **E.** | Reporting Time Period (month/year): October 1, 2012 through September 30, 2013 | | |
| **F.** | Name of the Responsible Authority: Sharon L. Harris | | |
| | Title: District Maintenance Administrator | | |
| | Mailing Address: 801 N. Broadway Ave. | | |
| | City: Bartow | Zip Code: 33830 | County: Polk |
| | Telephone Number: (863) 519-2300 | Fax Number: (863) 534-7045 | |
| | E-mail Address: Sharon.Hedrickharris@dot.state.fl.us | | |
| **G.** | Name of the Designated Stormwater Management Program Contact (if different from Section I.F above): Robert Dwyer | | |
| | Title: District Maintenance Environmental Manager | | |
| | Department: Maintenance | | |
| | Mailing Address: 801 N. Broadway Avenue | | |
| | City: Bartow | Zip Code: 33830 | County: Polk |
| | Telephone Number: (863) 519-2762 | Fax Number: (863) 534-7045 | |
| | E-mail Address: Robert.Dwyer@dot.state.fl.us | | |

| **SECTION II. MS4 MAJOR OUTFALL INVENTORY (Not Applicable In Year 1)** | |
|---|---|
| **A.** | Number of outfalls ADDED to the outfall inventory in the current reporting year (insert "0" if none): 1<br>(Does this number include non-major outfalls? ☐ Yes ☒ No ☐ Not Applicable) |
| **B.** | Number of outfalls REMOVED from the outfall inventory in the current reporting year (insert "0" if none): 81<br>(Does this number include non-major outfalls? ☒ Yes ☐ No ☐ Not Applicable) |
| **C.** | Is the change in the total number of outfalls due to lands annexed or vacated? ☐ Yes ☐ No ☒ Not Applicable |

## SECTION III. MONITORING PROGRAM

| | |
|---|---|
| **A.** | Provide a brief statement as to the status of monitoring plan implementation:<br><br>The monitoring plan is carried out through an inter-local agreement with Polk County. Please see the Polk County Annual Report for the monitoring information. |
| **B.** | Provide a brief discussion of the monitoring results to date:<br><br>The overall trend for Total Nitrogen is decreasing for 8 of the monitoring stations, and the correlation coefficients for these stations range from -0.01 to -0.54. For these stations, the negative trend over time accounts for 1 to 54% of the variability in levels of TN.<br><br>The overall trend for Total Nitrogen is increasing for 16, and the correlation coefficients for these stations range from 0.01 to 0.32. For these stations, the positive trend over time accounts for 1 to 32% of the variability.<br><br>The overall trend for Total Phosphorus is decreasing for 18 of the monitoring stations, and the correlation coefficient for these stations range from -0.04 to -0.69. For these stations, the negative trend over time accounts for 4 to 69% of the variability in levels of TP.<br><br>The overall trend for Total Phosphorus is increasing for 6 of the monitoring stations, and the correlation coefficient for these stations range from 0.09 to 0.31. For these stations, the positive trend over time accounts for 9 to 31% of the variability in levels of TP.<br><br>Samples are analyzed for Total Nitrogen and Total Phosphorus.<br><br>• *DEP Note: See Part V of the permit for the monitoring requirements. Each permittee must discuss the monitoring results as it relates to the implementation and effectiveness of their SWMP.* |
| **C.** | Attach a monitoring data summary, as required by the permit. Please see attached. Also see the Polk County Annual Report for the County's complete ambient monitoring information. |

## SECTION IV. FISCAL ANALYSIS

| | |
|---|---|
| **A.** | Total expenditures for the NPDES stormwater management program for the current reporting year: $1,781,000.00<br>*DEP Note: If program resources have decreased from the previous year, attach a discussion of the impacts on the implementation of the SWMP as per Part II.F of the permit.* |
| **B.** | Total budget for the NPDES stormwater management program for the subsequent reporting year: $1,824,230.00 |

## SECTION V. MATERIALS TO BE SUBMITTED WITH THIS ANNUAL REPORT FORM

Only the following materials are to be submitted to the Department along with this fully completed and signed Annual Report Form (check the appropriate box to indicate whether the item is attached or is not applicable):

***DEP Note: Please complete Checklists A & B at the end of the tailored form.***

| Attached | N/A | |
|---|---|---|
| ☐ | ☒ | Any additional information required to be submitted in this current annual reporting year in accordance with Part III.A of your permit that is not otherwise included in Section VII below. |
| ☒ | ☐ | A monitoring data summary as directed in Section III.C above and in accordance with Rule 62-624.600(2)(c), F.A.C. |
| ☐ | ☒ | Year 1 ONLY: An inventory of all known major outfalls and a map depicting the location of the major outfalls (hard copy or CD-ROM) in accordance with Rule 62-624.600(2)(a), F.A.C. |
| ☐ | ☒ | Year 3 ONLY: The estimates of pollutant loadings and event mean concentrations for each major outfall or each major watershed in accordance with Rule 62-624.600(2)(b), F.A.C. |
| ☐ | ☒ | Year 4 ONLY: Permit re-application information in accordance with Rule 62-624.420(2), F.A.C. |

**DO NOT SUBMIT ANY OTHER MATERIALS**

**(such as records and logs of activities, monitoring raw data, public outreach materials, etc.)**

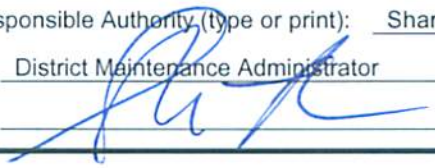
## SECTION VI. CERTIFICATION STATEMENT AND SIGNATURE

*The Responsible Authority listed in Section I.F above must sign the following certification statement, as per Rule 62-620.305, F.A.C:*

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of Responsible Authority (type or print): Sharon L. Harris

Title: District Maintenance Administrator

Signature:  Date: 3/26/14

| | SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE | | | | | |
|---|---|---|---|---|---|---|
| **A.** | | **B.** | **C.** | **D.** | **E.** | **F.** |
| **Permit Citation/SWMP Element** | | **Permit Requirement/Quantifiable SWMP Activity** | **Number of Activities Performed** | **Documentation / Record** | **Entity Performing the Activity** | **Comments** |
| **Part III.A.1** | | **Structural Controls and Stormwater Collection Systems Operation** | | | | |
| | | Maintain an up-to-date inventory of the structural controls and roadway stormwater collection structures operated by the permittee, including, at a minimum, all of the types of control structures listed in Table II.A.1.a of the permit. Report the current known inventory.<br><br>*DEP Note: The permittee needs to "customize" this section by adding any structural controls to the list below that are part of the permittee's MS4 currently or are planned for the future. The permittee may remove any structural controls listed that it does not have currently or will likely not have during this permit cycle. Please see the attached description of each type of structure. In addition, the permittee may choose its own unit of measurement for each structural control to be consistent with the unit of measurement in the documentation. Unit options include: miles, linear feet, acres, etc.*<br><br>Provide an inventory of all known major outfalls covered by the permit and a map depicting the location of the major outfalls (hard copy or CD-ROM). Provide the outfall inventory and map with the Year 1 Annual Report.<br><br>Report the number of inspection and maintenance activities conducted for each type of structure included in Table II.A.1.a, and the percentage of the total inventory of each type of structure inspected and maintained. If the minimum inspection frequencies set forth in Table II.A.1.a or the revised and approved FDOT Statewide Stormwater Management Program (SSWMP) that specifies minimum inspection frequencies were not met, provide as an attachment an explanation of why they were not and a description of the actions that will be taken to ensure that they will be met.<br><br>*DEP Note: If the minimum inspection frequencies set forth in Table II.A.1.a, or the revised and approved SSWMP, were not met for one or more type of structure, the permittee must provide as an attachment an explanation of why they were not and a description of the actions that will be taken to ensure that they will be met. Please provide the title of the attached explanation in Column D and the name of the entity who finalized the explanation in Column E.* | | | | |

| | SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| A. | | B. | | | | | | C. | D. | E. | F. |
| Permit Citation/SWMP Element | | Permit Requirement/Quantifiable SWMP Activity | | | | | | Number of Activities Performed | Documentation / Record | Entity Performing the Activity | Comments |
| | Type of Structure | Number of Activities Performed | | | | | | Documentation / Record | Entity Performing the Activity | Comments | |
| | | Total Number of Structures | Number of Inspections | Percentage Inspected | Number of Maintenance Activities Based on inspections | Number of Routine Maintenance Activities | Percentage Maintained | | | |
| | Dry retention systems | 22 | 14 | 63.64% | 1 | 0 | 100% | NPDES Database and District One Polk County Storm Water Pond Mowing and Litter Removal FPID: 427725-1-72-01 | Consultant and FDOT Personnel and maintenance contractors | FDOT follows the inspection and maintenance schedules in the approved 2012 Statewide Stormwater Management Plan. Stormwater treatment facility inspection frequencies are based on Southwest Florida Water Management District (SWFWMD) ERP criteria. Number of routine maintenance activities are not tracked by structure type; therefore, they are reported as zero. |
| | Exfiltration trench / French drain systems | 7 | 1 | 14.29% | 0 | 0 | 0% | | | |
| | Grass treatment swale systems | 18 | 1 | 5.56% | 0 | 0 | 100% | | | |
| | Dry detention systems | 62 | 12 | 19.35% | 0 | 0 | 100% | | | |
| | Wet detention systems | 106 | 31 | 29.25% | 3 | 0 | 100% | | | |
| | Wet retention systems | 15 | 0 | 0.00% | 0 | 0 | 100% | | | |
| | Ditch Block systems | 25 | 6 | 24.00% | 1 | 0 | 100% | | | |

| | SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| A. | | B. | | | | C. | | D. | E. | F. |
| Permit Citation/SWMP Element | | Permit Requirement/Quantifiable SWMP Activity | | | | Number of Activities Performed | | Documentation / Record | Entity Performing the Activity | Comments |
| | Major stormwater outfalls | 61 | 55 | 90.16% | 13 | 0 | 100% | Polk County Major Outfall Inventory spreadsheet | Consultant and FDOT Personnel | The inventory has been refined to reflect the addition and removal of major outfalls. Routine maintenance is not done on major stormwater outfalls. |
| | Weirs | 2 | 0 | 0% | 0 | 0 | 0% | NPDES Database | Consultant and FDOT Personnel | Maintenance was not required on the weirs during the permit period. |

| | SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| A. | | B. | | | | C. | | D. | E. | F. |
| Permit Citation/SWMP Element | | Permit Requirement/Quantifiable SWMP Activity | | | | Number of Activities Performed | | Documentation / Record | Entity Performing the Activity | Comments |
| | Other control structures | 168 | 43 | 25.59% | 0 | 0 | 0% | NPDES Database | Consultant and FDOT Personnel | Control structures are inspected concurrently with the stormwater detention facilities they are associated with. FDOT follows the inspection schedules for stormwater treatment facilities in the approved 2012 Statewide Stormwater Management Plan. Maintenance was not required for the control structures inspected. |

| | SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| A. | | B. | | | | C. | | D. | E. | F. |
| Permit Citation/SWMP Element | | Permit Requirement/Quantifiable SWMP Activity | | | | Number of Activities Performed | | Documentation / Record | Entity Performing the Activity | Comments |
| | **MS4 pipes / culverts (feet)** | 177,219 | 1,288 | 0.73% | 0 | 1,288 linear feet | 0.73% | RCI Feature 241 and MMS 451 | FDOT Personnel | The inspections of these structural controls are addressed through the Maintenance Rating Program (MRP) as addressed in the approved 2012 Statewide Stormwater Management Plan. Inlet/catch basin/grate and pipe cleaning maintenance are grouped together in MMS (Activity 451). A maintenance percentage for inlets/catch basins/grates cannot be determined as the inventory is reported as individual items; however, maintenance is tracked by linear feet. |
| | **Inlets / catch basins / grates** | 6,701 | 133 | 1.98% | 0 | 1,288 linear feet | 0% | RCI Feature 242, Maintenance Rating Program and MMS 451. | FDOT Personnel | |

| | SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **A.** | | **B.** | | | | **C.** | | **D.** | **E.** | **F.** |
| **Permit Citation/SWMP Element** | | **Permit Requirement/Quantifiable SWMP Activity** | | | | **Number of Activities Performed** | | **Documentation / Record** | **Entity Performing the Activity** | **Comments** |
| | **Ditches / conveyance swales (linear feet)** | 3,945,796.8 | 324 each | 0.00% | 0 | 80,183.7 | 2.03% | RCI Feature 245, 421, Maintenance Rating Program and MMS 461 and 464. | FDOT Personnel | The inspections of these conveyance structures are addressed through the FDOT MRP and the maintenance is addressed through MMS (Activity 461 and 464). |
| | **ATTACH explanation if any of the minimum inspection frequencies in Table II.A.1.a, or in the revised and approved SSWMP, were not met** | | | | Not applicable | | | | | |
| | **Year 1 ONLY: Attach a map of all known major outfalls** | | | | Not Applicable | | | | | |
| **Part III.A.2** | **Areas of New Development and Significant Redevelopment** | | | | | | | | | |
| | Continue to employ the FDOT Drainage Connection Permit (DCP) to ensure that appropriate stormwater treatment and permitting occurs prior to discharge into the FDOT system. FDOT shall refer connecting entities failing to meet the DCP requirements or maintain the discharge of acceptable water quality, after sufficient warning by FDOT to DEP and/or the Southwest Florida Water Management District, as appropriate, to regulate the stormwater quality through local or State rules, ordinances, and codes. Report the number of enforcement referrals completed. | | | | | | | | | |
| | **Number of enforcement referrals** | | | | | 0 | | 3/3/2014 E-mail from John Morrisey, Permits Manager at Bartow Operations Center | FDOT Personnel | No enforcement referrals occurred during the reporting period. |
| **Part III.A.3** | **Roadways** | | | | | | | | | |
| | Annually review (and revise, as needed) and implement the permittee's written procedures for the litter control program(s) for public streets, roads, and highways, including rights-of-way, employed within the permittee's jurisdictional area and properly dispose of collected material. Implement the program on a monthly, or on an as needed, basis. Report on the litter control program, including the frequency of litter collection, an estimate of the total number of road miles cleaned or amount of area covered by the activities, and an estimate of the quantity of litter collected.<br>*DEP Note: Please provide an explanation in Column F for any "0" reported in Column C. In addition, the permittee may choose its own units of measurement for the reporting items. Unit options for the amount of litter include: bags, cubic yards, pounds, tons. Unit options for the amount of area covered by the activity include: square feet, linear feet, yards, miles, acres. If all litter collection is performed by staff or by contractors, but not by both, please remove the non-applicable reporting items.* | | | | | | | | | |

| | SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE | | | | | |
|---|---|---|---|---|---|---|
| A. | | B. | C. | D. | E. | F. |
| Permit Citation/SWMP Element | | Permit Requirement/Quantifiable SWMP Activity | Number of Activities Performed | Documentation / Record | Entity Performing the Activity | Comments |
| | | **PERMITTEE Litter Control Program: Frequency of litter collection** | 12 / year | 3/11/2014 E-mail from Brent Finger, RCI / MMS / Warranties at Bartow Operations Center | FDOT Personnel | |
| | | **PERMITTEE Litter Control Program: Estimated amount of area maintained (acres)** | 1,107.28 | Roadway Characteristics Inventory (RCI) for Feature 411 | | |
| | | **PERMITTEE Litter Control Program: Estimated amount of litter collected (tons)** | 97.44 | 3/11/2014 E-mail from Brent Finger, RCI / MMS / Warranties at Bartow Operations Center and Daily Ticket Reports | | |
| | | **CONTRACTOR Litter Control Program: Frequency of litter collection** | 8 / year | District One Polk County Storm Water Pond Mowing and Litter Removal FPID: 427725-1-72-01 | FDOT Contractors | |
| | | **CONTRACTOR Litter Control Program: Estimated amount of area maintained (acres)** | 4,429.11 | Roadway Characteristics Inventory (RCI) for Feature 411 | | |
| | | **CONTRACTOR Litter Control Program: Estimated amount of litter collected (cubic yards)** | 571.4 | Polk County Debris and Litter Removal spreadsheet | | |
| | | **CONTRACTOR Litter Control Program: Estimated amount of litter collected (tons)** | 192.36 | E1F88 D1 Polk Litter Removal documentation | | |

| | SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE | | | | | |
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| **Permit Citation/SWMP Element** | | **Permit Requirement/Quantifiable SWMP Activity** | **Number of Activities Performed** | **Documentation / Record** | **Entity Performing the Activity** | **Comments** |
| | If an Adopt-A-Road or similar program is implemented, report the total number of road miles cleaned and an estimate of the quantity of litter collected.<br><br>*DEP Note: The permittee may choose its own unit of measurement for the amount of litter collected. Unit options include: bags, cubic yards, pounds, tons. If an Adopt-A-Road or similar program is not implemented by the permittee, please note that in Column F but do not remove the Adopt-A-Road Program reporting items.* | | | | | |
| | | **Adopt-A-Road Program: Total lane miles cleaned** | 13.09 | Polk County Adopt-A-Highway Totals spreadsheet. | Volunteer groups | There were 7 active groups during the permit period. |
| | | **Adopt-A-Road Program: Estimated amount of litter collected (pounds)** | 2,745 | | | |
| | Report on the street sweeping program, including the frequency of the sweeping, total miles swept, an estimate of the quantity of sweepings collected, and the total nitrogen (TN) and total phosphorus (TP) loadings that were removed by the collection of sweepings. If no street sweeping program is implemented, provide the explanation of why not in the Year 1 Annual Report.<br><br>*DEP Note: Please provide an explanation in Column F for any "0" reported in Column C. Also, the permittee may choose its own unit of measurement for the amount of sweeping material collected. Unit options include: cubic yards, pounds, tons.*<br>*DEP Note: If the permittee has curbs and gutters but no street sweeping program is implemented, the permittee must provide an explanation of why not in the Year 1 Annual Report. Refer to Part III.A.3 of the permit for the information that must be included in the explanation (including the alternate BMPs used or planned in lieu of street sweeping). Please provide the title of the attached explanation in Column D and the name of the entity who finalized the explanation in Column E.* | | | | | |
| | | **Frequency of street sweeping** | 12 / year | Specifications Package for FPID 429376-1-72-01, District One Polk County Mechanical Road and Bridge Sweeping | FDOT Maintenance Contractor | |
| | | **Total number of pavement miles swept (per year)** | 3,918 | | | |
| | | **Estimated quantity of sweeping material collected (pounds)** | 1,269,432 | Polk County - Estimated Quantity of Sweeping Material and Total Nitrogen and Phosphorous Loadings Removed Spreadsheet | Consultants | Estimated quantities were determined using Method 3 as documented in the approved 2012 Statewide Stormwater Management Plan. |
| | | **Total nitrogen loadings removed (pounds)** | 693.50 | | | |
| | | **Total phosphorus loadings removed (pounds)** | 443.84 | | | |
| | | **Year 1 ONLY: If have curbs and gutters, attach explanation of why no street sweeping program and the alternate BMPs used or planned** | Not Applicable | | | |

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| **Permit Citation/SWMP Element** | | **Permit Requirement/Quantifiable SWMP Activity** | **Number of Activities Performed** | **Documentation / Record** | **Entity Performing the Activity** | **Comments** |
| | Annually review (and revise, as needed) and implement the permittee's written standard practices to reduce the pollutants in stormwater runoff from areas associated with road repair and maintenance, and from permittee-owned or operated equipment yards and maintenance shops that support road maintenance activities. Report the number of applicable facilities and the number of inspections conducted for each facility.<br>*DEP Note: The permittee needs to "customize" this section by listing the names of the applicable facilities in Column B and the number of inspections of each facility in Column C. Add more rows if necessary. If "0" is reported in Column C for the number of inspections conducted and the permittee has one or more applicable facilities, please provide an explanation in Column F for why no inspections were conducted. In addition, if the same facility is applicable under both Parts III.A.3 and III.A.5 of the permit, the same site inspection can count towards both inspection requirements as long as it covers the applicable waste area(s). Be sure to report the site inspection under both Parts III.A.3 and III.A.5.* | | | | | |
| | | | **Number of Inspections** | | | |
| | **Name of facility #1:** Bartow Operations Center | | 1 | NPDES MS4 Permit Stormwater Inspection High Risk Industrial Facilities and Municipal Facilities inspection report 4/16/2013 | Robert Dwyer, District Maintenance Environmental Manager | Inspection was conducted on 4/16/2013. |
| **Part III.A.4** | **Flood Control Projects** | | | | | |
| | Report the total number of flood control projects that were constructed by the permittee during the reporting period and the number of those projects that did NOT include stormwater treatment. The permittee shall provide a list of the projects where stormwater treatment was not included with an explanation for each of why it was not. Report on any stormwater retrofit planning activities and the associated implementation of retrofitting projects to reduce stormwater pollutant loads from existing drainage systems that do not have treatment BMPs.<br>*DEP Note: A "stormwater retrofit project" is one implemented primarily to provide stormwater treatment for areas currently without treatment.*<br>*DEP Note: The status of the flood control and retrofit projects should be reported as of the last day of the applicable reporting period. Therefore, there should be no duplication for those reported as planned, for those reported as under construction and for those reported as completed.*<br>*DEP Note: If applicable, please provide the title of the attached list of flood control projects that did not include stormwater treatment in Column D and the name of the entity who finalized the list in Column E.* | | | | | |

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| **Permit Citation/SWMP Element** | | **Permit Requirement/Quantifiable SWMP Activity** | **Number of Activities Performed** | **Documentation / Record** | **Entity Performing the Activity** | **Comments** |
| | **Flood control projects completed during the reporting period** | | 0 | FDOT's Adopted Five Year Work Program (July 1, 2013 thru June 30, 2018) | FDOT Personnel | FDOT does not construct flood control or stormwater retrofit projects. FDOT adheres to water quality and attenuation standards based on ERP permit requirements. |
| | **Flood control projects completed during the reporting period that did <u>not</u> include stormwater treatment** | | 0 | | | |
| | **ATTACH a list of the flood control projects that did <u>not</u> include stormwater treatment and an explanation for each of why it was not** | | | | | |
| | **Stormwater retrofit projects planned** | | 0 | | | |
| | **Stormwater retrofit projects under construction during the reporting period** | | 0 | | | |
| | **Stormwater retrofit projects completed during the reporting period** | | 0 | | | |
| **Part III.A.5** | **Municipal Waste Treatment, Storage, and Disposal Facilities Not Covered by an NPDES Stormwater Permit** | | | | | |
| | Annually review (and revise, as needed) and implement written procedures for inspections and the implementation of measures to control discharges from the following facilities that are not otherwise covered by an NPDES stormwater permit:<br>• FDOT waste transfer stations;<br>• FDOT waste fleet maintenance facilities; and<br>• Any other FDOT waste treatment, waste storage, and waste disposal facilities.<br>Report the number of applicable facilities and the number of the inspections conducted for each facility.<br>*<u>DEP Note:</u> The permittee needs to "customize" this section by listing the names of the applicable facilities in Column B and the number of inspections of each facility in Column C. Add more rows if necessary. If "0" is reported in Column C for the number of inspections conducted and the permittee has one or more applicable facilities, please provide an explanation in Column F for why no inspections were conducted.* ***An applicable facility under Part III.A.5 includes, but is not limited to, those facilities/yards where street sweeping material and/or yard waste are temporary stockpiled.*** *In addition, if the same facility is applicable under both Parts III.A.3 and III.A.5 of the permit, the same site inspection can count towards both inspection requirements as long as it covers the applicable waste area(s). Be sure to report the site inspection under both Parts III.A.3 and III.A.5.* | | | | | |
| | | | **Number of Inspections** | | | |
| | **Name of facility #1:** 0 | | 0 | 2/4/2013 Email from Robert Dwyer, District Maintenance Environmental Administrator | | There are no applicable FDOT facilities in Polk County which meet these criteria. |

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| **Permit Citation/SWMP Element** | | **Permit Requirement/Quantifiable SWMP Activity** | **Number of Activities Performed** | **Documentation / Record** | **Entity Performing the Activity** | **Comments** |
| **Part III.A.6** | **Pesticides, Herbicides, and Fertilizer Application** | | | | | |
| | Continue to require proper certification and licensing by the Florida Department of Agriculture and Consumer Services (FDACS) for all applicators contracted to apply pesticides, herbicides, or fertilizers on permittee-owned property, as well as any permittee personnel employed in the application of these products. Report the number of permittee personnel applicators and contracted commercial applicators of pesticides and herbicides who are FDACS certified / licensed. Report the number of permittee personnel and contractors who have been trained through the Green Industry BMP Program, and the number of contracted commercial applicators of fertilizer who are FDACS certified / licensed.<br><br>*DEP Note: If "0" is reported in Column C for any of the reporting items, please include in Column F an explanation of why training was not provided to / obtained by personnel and contractors during the applicable reporting year, the most recent year that training / certification was previously provided / obtained, and the names of the personnel and contractors previously trained / certified.* | | | | | |
| | **PERSONNEL: Florida Department of Agriculture and Consumer Services (FDACS) certified applicators of pesticides and herbicides** | | 2 | Department of Agriculture and Consumer Services (FDACS) License #: PB10222 and PB10414 | FDOT Personnel | |

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| **Permit Citation/SWMP Element** | | **Permit Requirement/Quantifiable SWMP Activity** | **Number of Activities Performed** | **Documentation / Record** | **Entity Performing the Activity** | **Comments** |
| | | **CONTRACTORS: FDACS certified / licensed applicators of pesticides and herbicides** | 16 | Florida Department of Agriculture and Consumer Services Pesticide Certification Office Commercial Applicator License # CM20029, CM19130 CM21752, CM19275, CM21144 CM18097, CM19275, CM20140, CM21700, CM16111, CM21752, CM21040, CM20141, CM21038, CM21999, and CM20541 | FDOT Contractors | |
| | | **CONTRACTORS: FDACS certified / licensed applicators of fertilizer** | 0 | 3/5/2014 Email from Joshua Joyner, FDOT Maintenance Contractor Coordinator | FDOT Contractors | FDOT currently does not have any fertilizer contracts and therefore does not have any certified fertilizer applicators. |

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| **Permit Citation/SWMP Element** | | **Permit Requirement/Quantifiable SWMP Activity** | **Number of Activities Performed** | **Documentation / Record** | **Entity Performing the Activity** | **Comments** |
| | **PERSONNEL: Green Industry BMP Program training completed** | | 0 | 2/19/2014 Email from Eddie King, Field Supervisor | FDOT Personnel | FDOT is requiring all necessary personnel and contractors to complete the FDOT Green Industry BMP Program pursuant to the permit and the approved 2012 Statewide Stormwater Management Plan. |
| | **CONTRACTORS: Green Industry BMP Program training completed** | | 1 | FDEP Best Management Practices Florida Green Industries Certificate #GV20040-1 | FDOT Contractors | |
| **Part III.A.7.a** | **Illicit Discharges and Improper Disposal — Inspections, Ordinances, and Enforcement Measures** | | | | | |
| | {Not Applicable to FDOT } | | | | | |
| **Part III.A.7.c** | **Illicit Discharges and Improper Disposal — Investigation of Suspected Illicit Discharges and/or Improper Disposal** | | | | | |
| | During Year 1 of the permit, develop and implement a written proactive inspection program plan for identifying and eliminating sources of illicit discharges, illicit connections, or dumping to the MS4. Beginning with the Year 2 Annual Report, report on the proactive inspection program, including the number of inspections conducted, the number of illicit activities found, and the number of referrals completed.<br><br>*DEP Note: If "0" is reported in Column C for the first reporting item, please include an explanation in Column F for why no proactive inspections were performed.*<br><br>*DEP Note: Refer to Part III.A.7.c of the permit for what must be included in the written proactive inspection program plan. Please provide the title of the attached plan in Column D and the name of the entity who finalized the plan in Column E.* | | | | | |
| | **Proactive inspections performed by Polk County on behalf of a co-permittee for suspected illicit discharges / connections / dumping** | | 0 | | | Polk County does not perform proactive inspections on behalf of FDOT. |

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| **Permit Citation/SWMP Element** | | **Permit Requirement/Quantifiable SWMP Activity** | **Number of Activities Performed** | **Documentation / Record** | **Entity Performing the Activity** | **Comments** |
| | **Proactive inspections performed by the permittee for suspected illicit discharges / connections / dumping** | | 283 | Daily Crew Work Report, City of Lakeland & FDOT - Lakes & Stormwater - Illicit Discharge Stormwater Cooperative Proactive Inspection form and E-mail dated 3/14/2013 from Robert Dwyer, District Maintenance Environmental Manager | FDOT Personnel and City of Lakeland staff | 2 illicit discharges were found during the proactive inspection during the reporting period. Verbal warnings and corrective actions were done at the time of the inspections. Enforcement was not necessary. 1 was an illicit connection which was eliminated. |
| | **Illicit discharges / connections / dumping found during a proactive inspection** | | 3 | | | |
| | **Number of enforcement referrals** | | 0 | | | |
| | **Year 1 ONLY: Attach the written proactive inspection program plan** | | Not Applicable | | | |
| | Annually review (and revise, as needed) and implement the permittee's written procedures to conduct reactive investigations to identify and eliminate the source(s) of illicit discharges, illicit connections or improper disposal to the FDOT MS4 within the FDOT right-of-way, based on reports received from permittee personnel, contractors, citizens, or other entities regarding suspected illicit activity. Report on the reactive investigation program as it relates to responding to reports of suspected illicit discharges, including the number of investigations conducted, the number of illicit activities found, and the number of enforcement referrals completed. | | | | | |
| | **Reports of suspected illicit connections / discharges / dumping received** | | 0 | | FDOT Personnel | There were no reports of suspected illicit connections / discharges / dumping received and therefore no enforcement referrals were required. |
| | **Reactive investigations received by the permittee of reports of suspected illicit discharges/ connections / dumping** | | 0 | | | |
| | **Illicit discharges / connections / dumping found during a reactive investigation** | | 0 | | | |
| | **Number of enforcement referrals** | | 0 | | | |

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| **Permit Citation/SWMP Element** | | **Permit Requirement/Quantifiable SWMP Activity** | **Number of Activities Performed** | **Documentation / Record** | **Entity Performing the Activity** | **Comments** |
| | During Year 1 of the permit, develop and implement a written plan for the training of all appropriate permittee personnel (including field crews, fleet maintenance staff, and inspectors) and contractors to identify and report conditions in the stormwater facilities that may indicate the presence of illicit discharges / connections / dumping to the MS4. Refresher training shall be provided annually. Report the type of training activities, and the number of permittee personnel and contractors trained (both in-house and outside training).<br><br>*DEP Note: If "0" is reported for either reporting item, please include in Column F an explanation of why training was not provided to / obtained by personnel and contractors during the applicable reporting year, the most recent year that training was previously provided / obtained, and the names of the personnel and contractors previously trained.* | | | | | |
| | | **Initial Training** | **Refresher Training** | | | |
| | **Personnel trained** | 24 | 31 | | Illicit Discharge Training Sign-In Sheet Bartow Operations (12/4/2012) and Illicit Discharge BOC Safety Meeting sign-in sheet (9/3/2013) | Polk County and FDOT Personnel | FDOT provides annual illicit discharge training. |
| | **Contractors trained** | 0 | 0 | | | | FDOT is in the process of finalizing the statewide illicit discharge detection and elimination training program for FDOT staff and contractors. It is anticipated that this training will be implemented in Year 3. |
| **Part III.A.7.d** | **Illicit Discharges and Improper Disposal — Spill Prevention and Response** | | | | | |
| | Annually review (and revise, as needed) and implement the permittee's written spill-prevention/spill-response plan and procedures to prevent, contain, and respond to spills that discharge into the MS4. Report on the spill prevention and response activities, including the number of spills addressed.<br><br>*DEP Note: The permittee may report the number of hazardous material spills separately from the number of non-hazardous material spills, or report one combined number, to more accurately reflect its tracking of these spills.* | | | | | |

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| **Permit Citation/SWMP Element** | | **Permit Requirement/Quantifiable SWMP Activity** | **Number of Activities Performed** | **Documentation / Record** | **Entity Performing the Activity** | **Comments** |
| | **Hazardous and non-hazardous material spills responded to** | | 5 | FDOT Permit Tracking System (PITS) Database | FDOT Personnel and Contractors | |
| | During Year 1 of the permit, develop and implement a written plan for the training of all appropriate permittee personnel (including field crews, firefighters, fleet maintenance staff and inspectors) and contractors on proper spill prevention, containment, and response techniques and procedures. Refresher training shall be provided annually. Report the type of training activities, and the number of permittee personnel and contractors trained (both in-house and outside training).<br>*DEP Note: If "0" is reported for either reporting item, please include in Column F an explanation of why training was not provided to / obtained by personnel and contractors during the applicable reporting year, the most recent year that training was previously provided / obtained, and the names of the personnel and contractors previously trained.* | | | | | |
| | | **Initial Training** | **Refresher Training** | | | |
| | **Personnel trained** | 24 | 31 | | Illicit Discharge Training Sign-In Sheet Bartow Operations (12/4/2012) and Illicit Discharge BOC Safety Meeting sign-in sheet (9/3/2013) | Polk County and FDOT Personnel | Spill response and reporting is a part of the annual illicit discharge training. |
| | **Contractors trained** | 0 | 0 | | | | FDOT is in the process of finalizing the statewide illicit discharge detection and elimination training program for FDOT staff and contractors. It is anticipated that this training will be implemented in Year 3. |

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| **Part III.A.7.e** | **Illicit Discharges and Improper Disposal — Public Reporting** | | | | | |
| | {Not Applicable to FDOT } | | | | | |
| **Part III.A.7.f** | **Illicit Discharges and Improper Disposal — Oils, Toxics, and Household Hazardous Waste Control** | | | | | |
| | Continue to include a notice with each FDOT Drainage Connection Permit with information on used oil recycling, proper hazardous waste disposal, stormwater regulations, and spill reporting. Report the number of notices distributed.<br><br>*DEP Note: If "0" is reported in Column C, please include in Column F an explanation for why no notices were distributed. If the number of notices distributed is different than the number of DCPs issued, please include in Column F an explanation for this difference.* | | | | | |
| | | **Number of notices distributed** | 35 | FDOT Permit Tracking System (PITS) Database | FDOT Personnel | NPDES Flyers are distributed with approved Drainage Connection Permits. |
| **Part III.A.7.g** | **Illicit Discharges and Improper Disposal — Limitation of Sanitary Sewer Seepage** | | | | | |
| | Advise the appropriate utility owner of a violation if constituents common to wastewater contamination are discovered in FDOT's or Florida Turnpike Enterprise's MS4. Report the number of violations referred to the appropriate utility owner and the name of the utility owner. | | | | | |
| | | **Number of violations referred to the appropriate utility owner** | 0 | 2-19-2014 Email from Robert Dwyer, District Maintenance Environmental Manager | FDOT Personnel | No violations were observed during the reporting period. |
| | | **Name of owner of the sanitary sewer system** | Not applicable | | | |

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| **Part III.A.8.a** | **Industrial and High-Risk Runoff — Identification of Priorities and Procedures for Inspections** | | | | | |

Continue to maintain an up-to-date inventory of all existing high risk facilities discharging into the permittee's MS4. The inventory shall identify the outfall and surface water body into which each high risk facility discharges. For the purposes of this permit, high risk facilities include:

- Operating municipal landfills;
- Hazardous waste treatment, storage, disposal and recovery facilities;
- Facilities that are subject to EPCRA Title III, Section 313 (also known as the Toxics Release Inventory (TRI) maintained by the U.S. EPA); and
- Any other industrial or commercial discharge that the permittee determines is contributing a substantial pollutant loading to the permittee's MS4. This could include facilities identified through the proactive inspection program as per Part III.A.7.c of the permit.

Report on the high risk facilities inventory, including the type and total number of high risk facilities and the number of facilities newly added each year

*DEP Note: The TRI is updated every spring / summer by the U.S. EPA at www.epa.gov/triexplorer. Select "Facility" on the left, chose your Geographic Location, and then select "Generate Report." Please indicate in Column F when (month / year) you last checked EPA's TRI for applicable facilities.*

During Year 1 of the permit, develop and implement a written plan for conducting inspections of high risk facility outfalls to the FDOT/Florida Turnpike Enterprise MS4 to determine compliance with all appropriate aspects of the stormwater program. While the permittee may determine the order and frequency of the inspections, the permittee shall inspect each identified facility's outfall(s) at least once during the permit term; however, facilities identified as high risk due to the findings of the proactive inspection program as per Part III.A.7.c of the permit shall be inspected annually. Report on the high risk facility inspection program, including the number of outfall inspections conducted and the number of enforcement referrals completed.

*DEP Note: If "0" is reported for the number of outfall inspections conducted and the permittee has one or more high risk facilities, please provide an explanation in Column F for why no inspections were conducted.*

| | **Number of Facilities** | **Number of Inspections** | **Number of Enforcement Referrals** | | | |
|---|---|---|---|---|---|---|
| **Total high risk facilities** | 1 | 0 | 0 | 2012Toxic Release Inventory and PITS Permit Database | FDOT Personnel and Consultants | 1 High Risk facility was identified during the screening process in Year 1. An inspection will performed per the Standard Operating Procedure (SOP). |
| **New high risk facilities added to the inventory during the current reporting period** | 0 | 0 | 0 | | | |
| **Operating municipal landfills** | 0 | 0 | 0 | | | |
| **Hazardous waste treatment, storage, disposal and recovery (HWTSDR) facilities** | 0 | 0 | 0 | | | |
| **EPCRA Title III, Section 313 facilities (that are not landfills or HWTSDR facilities)** | 1 | 0 | 0 | | | |
| **Facilities determined as high risk by the permittee through the proactive inspections as per Part III.A.7.c** | 0 | 0 | 0 | | | |
| **Other facilities determined as high risk by the permittee (that are <u>not</u> facilities identified through the proactive inspections)** | 0 | 0 | 0 | | | |

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| **Part III.A.8.b** | **Industrial and High-Risk Runoff — Monitoring for High Risk Industries** | | | | | |
| | {Not Applicable to FDOT} | | | | | |
| **Part III.A.9.a** | **Construction Site Runoff — Site Planning and Non-Structural and Structural Best Management Practices** | | | | | |
| | Employ FDOT Drainage Connection Permit (DCP) conditions that include the use of stormwater, erosion, and sedimentation control BMPs during construction to reduce pollutants to the MS4 and receiving waters. Report the number of permits issued. | | | | | |
| | | **Number of DCPs/Special Permits issued** | 35 | FDOT Permit Tracking System (PITS) Database | FDOT Personnel | DCPs approved during the permit year. |
| **Part III.A.9.b** | **Construction Site Runoff — Inspection and Enforcement** | | | | | |
| | As an attachment to the Year 1 Annual Report, the permittee shall submit a written plan that details the standard operating procedures for implementation of the stormwater, erosion and sedimentation inspection program for construction sites discharging stormwater to the MS4. The permittee shall implement the plan for inspecting construction sites immediately upon written approval by the Department. Prior to Department approval, the permittee shall continue to perform inspections in accordance with its previously developed construction site inspection procedures. Report on the inspection program for privately-operated and permittee-operated construction sites, including the number of active construction sites during the reporting year, the number of inspections of active construction sites, the percentage of active construction sites inspected, and the number and type of enforcement actions / referrals taken.<br><br>*DEP Note: For FDOT/Florida Turnpike Enterprise, privately-operated sites are those sites within FDOT's right-of-way that were issued a DCP and the inspections are outfall inspections, not site inspections. In addition, FDOT should re-word the "Corrective action notices issued" reporting item to more accurately reflect its particular initial action taken when violations are found at FDOT-operated construction sites, if necessary.*<br><br>*DEP Note: If "0" is reported in Column C for the number of inspections conducted, please provide an explanation in Column F of why no inspections were conducted. If the number of inspections reported is equal to or less than the number of active construction sites, or the percentage inspected is less than 100%, please provide an explanation in Column F.*<br><br>*DEP Note: Refer to Part III.A.9.b of the permit for what must be included in the construction site inspection program plan. Please provide the title of the attached plan in Column D and the name of the entity who finalized the plan in Column E.* | | | | | |

| | SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE | | | | | |
|---|---|---|---|---|---|---|
| **A.** | | **B.** | **C.** | **D.** | **E.** | **F.** |
| **Permit Citation/SWMP Element** | | **Permit Requirement/Quantifiable SWMP Activity** | **Number of Activities Performed** | **Documentation / Record** | **Entity Performing the Activity** | **Comments** |
| | **PERMITTEE SITES: Active construction sites** | | 18 | NPDES SWPPP Status spreadsheets and Contract Information Monitoring (CIM) | FDOT Personnel | Construction inspections are conducted based on FDOT D1's Standard Operating Procedures. Due to the variations in project start and end dates, not all active construction sites are inspected during the permit period. |
| | **PERMITTEE SITES: Inspections of active construction sites for proper stormwater, erosion and sedimentation BMPs** | | 18 | | FDOT Personnel and Contractors | |
| | **PERMITTEE SITES: Percentage of active construction sites inspected** | | 50% | | | |
| | **PERMITTEE SITES: Corrective action notices issued** | | 0 | | | |
| | **PRIVATE SITES: Active construction sites** | | 34 | FDOT Permit Tracking System (PITS Database) | FDOT Personnel and Contractors | 34 approved DCPs were under active construction during the permit year. Some private active construction sites had multiple inspections. |
| | **PRIVATE SITES: Inspections of active construction sites for proper stormwater, erosion and sedimentation BMPs** | | 59 | | | |
| | **PRIVATE SITES: Percentage of active construction sites inspected** | | 74% | | | |
| | **PRIVATE SITES: Number of enforcement referrals** | | 0 | 3/3/2014 E-mail from John Morrisey, Permits Manager at Bartow Operations Center | FDOT Personnel | |
| | **Year 1 ONLY: Attach the written construction site inspection program plan** | | Not Applicable | | | |
| **Part III.A.9.c** | **Construction Site Runoff — Site Operator Training** | | | | | |
| | During Year 1 of the permit, develop and implement a written plan for stormwater training / outreach for construction site plan reviewers, site inspectors and site operators. Provide training for permittee personnel (employed by or under contract with the permittee) involved in the site plan review, inspection or construction of stormwater management, erosion, and sedimentation controls. Also provide training for private construction site operators. All permittee inspectors (employed by or under contract with the permittee) of construction sites shall be certified through the Florida Stormwater, Erosion and Sedimentation Control Inspector Training program, or an equivalent program approved by the Department. Refresher training shall be provided annually. Report the type of training activities, the number of inspectors, site plan reviewers and site operators trained (both in-house and outside training), and the number of private construction site operators trained by the permittee. | | | | | |

| | SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **A.** | | **B.** | | | **C.** | **D.** | **E.** | **F.** |
| **Permit Citation/SWMP Element** | | **Permit Requirement/Quantifiable SWMP Activity** | | | **Number of Activities Performed** | **Documentation / Record** | **Entity Performing the Activity** | **Comments** |
| | *DEP Note: If "0" is reported for any of these reporting items, please include in Column F an explanation of why training was not provided to / obtained by the permittee's staff and private construction site operators during the applicable reporting year.*<br>*DEP Note: The permittee should report only the number of staff and private construction site operators trained / certified during the applicable reporting year, and then note in Column F the number of staff who were previously trained / certified. Private site operator training can include pre-construction meetings.* | | | | | | | |
| | | **Inspector Certification Training** | **Non-Inspector Initial Training (non-certification)** | **Refresher Training** | | | | |
| | **FDOT construction site inspectors / site plan reviewers and site operators** | 11 | | 0 | | FDEP Stormwater, Erosion & Sedimentation Control sign-in sheet | Local Copermittees | FDOT continues to promote staff and contractor training for erosion and sediment controls. Refresher training is provided to previously trained staff and contractors. Those totals are reported under the refresher training for Years 3-5. |
| | **Private construction site operators** | 13 | | 0 | | | | |

| SECTION VIII. EVALUATION OF THE STORMWATER MANAGEMENT PROGRAM (SWMP) | | |
|---|---|---|
| | **Permit Citation/ SWMP Element** | **SWMP EVALUATION** |
| **A.** | **Part II.A.1 Structural control inspection and maintenance** | Strengths: FDOT District One has a comprehensive inspection and maintenance program for stormwater treatment and conveyance structures. FDOT District One implements a routine stormwater treatment facility inspection program, consistent with WMD ERP inspection criteria. Stormwater conveyance structures are inspected and maintained consistent with the Department's Maintenance Rating Program (MRP) as detailed in the approved 2012 FDOT Statewide Stormwater Management Plan. FDOT District One's inspection and maintenance program is designed to be proactive at identifying and correcting deficiencies to ensure treatment and conveyance systems continue to function as designed and permitted. |
| | | Weaknesses: None noted at this time. |
| | | SWMP Revisions to address deficiencies: None noted at this time. |
| | **Part II.A.2 Significant redevelopment** | Strengths: FDOT District One continues to implement Chapter 14-86 FAC to ensure off-site facilities connecting to FDOT's right-of-way through Drainage Connection Permits (DCPs) meet existing water quality standards. |
| | | Weaknesses: None noted at this time. |
| | | SWMP Revisions to address deficiencies: None noted at this time. |
| | **Part II.A.3 Roadways** | Strengths: FDOT District One maintains an active roadway management program. This program includes: litter pick-up, Adopt-A-Highway, street sweeping and annual inspections of its maintenance yards. |
| | | Weaknesses: None noted at this time. |
| | | SWMP Revisions to address deficiencies: None noted at this time. |
| | **Part II.A.4 Flood control** | Strengths: FDOT District One does not construct flood control or stormwater retrofit projects. FDOT District One continues to adhere to state water quality and attenuation criteria for new roadway and road widening projects based on ERP permit requirements. |
| | | Weaknesses: None noted at this time. |
| | | SWMP Revisions to address deficiencies: None noted at this time. |
| | **Part II.A.5 Waste TSD Facilities** | Strengths: There are no applicable FDOT facilities in Polk County which meet the criteria listed. Currently, FDOT does not temporarily stockpile street sweeping material and/or yard waste at its maintenance yards. |
| | | Weaknesses: None noted at this time. |
| | | SWMP Revisions to address deficiencies: None noted at this time. |
| | **Part II.A.6 Pesticide, herbicide, fertilizer application** | Strengths: FDOT District One requires personnel to be knowledgeable and able to implement a safe and effective chemical weed and grass control program. FDOT requires proper certification and licensing from Florida Department of Agriculture and Consumer Services (FDACS) for all personnel and contractors applying pesticides or herbicides on FDOT property or rights-of-way. It is FDOT's intention to reduce the amount of fertilizer used. FDOT will require all necessary FDOT personnel and contractors to complete the FDOT Green Industry BMP Program by January 2014, pursuant to the permit and the approved 2012 Statewide Stormwater Management Plan. |
| | | Weaknesses: None noted at this time. |

| SECTION VIII. EVALUATION OF THE STORMWATER MANAGEMENT PROGRAM (SWMP) | | |
|---|---|---|
| | | SWMP Revisions to address deficiencies: None noted at this time. |
| | **Part II.A.7 Illicit Discharge Detection and Elimination** | Strengths: FDOT District One implements its MRP/MMS program, which provides significant coverage of the FDOT MS4 for inspection and maintenance. As such, the fundamental component of a proactive illicit discharge program, that is, inspectors visiting all areas of the MS4, is achieved through the MRP/MMS program. FDOT staff are trained annually regarding illicit discharges and connections, the proper reporting procedure and spill prevention and response. At a minimum, one trained FDOT field staff is in the field each day to be observant for illicit discharges and/or spills. |
| | | Weaknesses: FDOT currently does not have an FDOT maintenance contractor training system in place. FDOT's contractor training program has been finalized and will be implemented in Year 3. |
| | | SWMP Revisions to address deficiencies: FDOT has recently finalized the Tier-1 illicit discharge and spill response training for all appropriate FDOT maintenance contractors. Based on the approved 2012 Statewide Stormwater Management Plan, FDOT contractors will be required to obtain illicit discharge and spill response training. Contractors will be instructed to report potential discharges to FDOT staff. |
| | **Part II.A.8 High Risk Industry Runoff** | Strengths: FDOT District One screens all approved Drainage Connection Permits (DCP) against the most recent EPA Toxic Release Inventory (TRI). Any facility that has an approved DCP and also listed on EPA's TRI list is added to FDOT's high risk inventory and is then inspected for any potential illicit discharges or connections. In addition, non-high risk facilities found to be discharging non-stormwater to FDOT District One's MS4 are also added to the high risk inventory and will be inspected in subsequent permit years consistent with the SOPs. |
| | | Weaknesses: None noted at this time. |
| | | SWMP Revisions to address deficiencies: None noted at this time. |
| | **Part II.A.9 Construction Site Runoff** | Strengths: FDOT has a standard operating procedure in place to ensure that FDOT construction sites are being inspected on a routine basis. All FDOT construction projects that require NPDES CGP coverage will be prioritized and the inspection frequency shall be associated with its priority level. The intent of this procedure is to ensure that construction activities are not negatively impacting adjacent properties, receiving waters or sensitive areas. The drainage connection permit requires that all construction projects draining to the Department's MS4 meet water quality treatment criteria. FDOT inspects the proposed outfall / drainage connection during construction. Any observed water quality violations will be reported to the appropriate agency or local municipality. |
| | | Weaknesses: None noted at this time. |
| | | SWMP Revisions to address deficiencies: None noted at this time. |

| SECTION IX. CHANGES TO THE STORMWATER MANAGEMENT PROGRAM (SWMP) ACTIVITIES (Not Applicable In Year 4) | | |
|---|---|---|
| A. | **Permit Citation/ SWMP Element** | **Proposed Changes to the Stormwater Management Program Activities Established as Specific Requirements Under Part III.A of the Permit (Including the Rationale for the Change) — REQUIRES DEP APPROVAL PRIOR TO CHANGE IF PROPOSING TO REPLACE OR DELETE AN ACTIVITY.**<br>*DEP Note: There may be changes deemed necessary after developing / reviewing your plans and SOPs as per Part III.A of the permit, after completing your SWMP evaluation as per Part VI.B.2 of the permit, or due to a TMDL / BMAP as per Part VIII.B of the permit.* |
| | | None noted at this time. |
| | | |
| | | |
| B. | **Permit Citation/ SWMP Element** | **Changes to the Stormwater Management Program Activities NOT Established as Specific Requirements Under Part III.A of the Permit (Including the Rationale for the Change)**<br>*DEP Note: There may be changes deemed necessary after developing / reviewing your plans and SOPs as per Part III.A of the permit, after completing your SWMP evaluation as per Part VI.B.2 of the permit, or due to a TMDL / BMAP as per Part VIII.B of the permit.* |
| | | None noted at this time. |
| | | |
| | | |

## CHECKLIST A: ATTACHMENTS TO BE SUBMITTED WITH THE ANNUAL REPORTS

Below is a list of items required by the permit that may need to be attached to the annual report. Please check the appropriate box to indicate whether the item is attached or is not applicable for the current reporting period. Please provide the number and the title of the attachments in the blanks provided.

| Attached | N/A | Rule / Permit Citation | Required Attachment | Attachment Number | Attachment Title |
|---|---|---|---|---|---|
| ☐ | ☒ | Part II.F | **EACH ANNUAL REPORT:** If program resources have decreased from the previous year, a discussion of the impacts on the implementation of the SWMP. | | |
| ☐ | ☒ | Part III.A.1 | **EACH ANNUAL REPORT:** An explanation of why the minimum inspection frequency in Table II.A.1.a or in a revised/approved FDOT SSWMP, was not met, if applicable. | | |
| ☐ | ☒ | Part III.A.4 | **EACH ANNUAL REPORT:** A list of the flood control projects that did not include stormwater treatment and an explanation for each of why it did not, if applicable. | | |
| ☒ | ☐ | Part V.B.9 | **EACH ANNUAL REPORT:** Reporting and assessment of monitoring results. **[Also addressed in Section III of the Annual Report Form]** | Appendix A | Monitoring Program |
| ☒ | ☐ | Part VI.B.2 | **EACH ANNUAL REPORT:** An evaluation of the effectiveness of the SWMP in reducing pollutant loads discharged from the MS4 that, at a minimum, must include responses to the questions listed in the permit. | | See Section VIII of the Annual Report form. |
| ☐ | ☒ | Part VIII.B.3.e | **EACH ANNUAL REPORT:** A status report on the implementation of the requirements in this section of the permit and on the estimated load reductions that have occurred for the pollutant(s) of concern. | | |
| ☐ | ☒ | Part VIII.B.4.f | **EACH ANNUAL REPORT after approval of the BPCP:** The status of the implementation of the Bacterial Pollution Control Plan (BPCP). | | |
| ☐ | ☒ | Part III.A.1 | **YEAR 1:** An inventory of all known major outfalls and a map depicting the location of the major outfalls (hard copy or CD-ROM). | | |
| ☐ | ☒ | Part III.A.3 | **YEAR 1:** If have curbs and gutters but no street sweeping program, an explanation of why no street sweeping program and the alternate BMPs used or planned. | | |
| ☐ | ☒ | Part III.A.7.c | **YEAR 1:** A proactive illicit discharge / connection / dumping inspection program plan. | | |
| ☐ | ☒ | Part III.A.9.b | **YEAR 1:** A construction site inspection program plan. **[For approval by DEP]** | | |
| ☐ | ☒ | Part V.A.2 | **YEAR 3:** Estimates of annual pollutant loadings and EMCs, and a table comparing the current calculated loadings with those from the previous two Year 3 ARs. | | |
| ☐ | ☒ | Part V.A.3 | **YEAR 4:** If the total annual pollutant loadings have not decreased over the past two permit cycles, revisions to the SWMP, as appropriate. | | |
| ☐ | ☒ | Part V.B.3 | **YEAR 4:** The monitoring plan (with revisions, if applicable). | | |
| ☐ | ☒ | Part VII.C | **YEAR 4:** An application to renew the permit. | | |
| ☐ | ☒ | Part VIII.B.3.d | **YEAR 4:** A TMDL Implementation Plan / Supplemental SWMP. | | |

## CHECKLIST B: THE REQUIRED ANNUAL REVIEWS OF WRITTEN STANDARD OPERATING PROCEDURES (SOPs) & PLANS

The permit requires annual review, and revision if needed, of written Standard Operating Procedures (SOPs) and plans (e.g., public education and outreach, training, inspections). Please indicate your review status below. **If you have made revisions that need DEP approval, you must complete Section VIII.A of the annual report.**

| Did not complete review of existing SOP / Plan | Developed new written SOP / Plan | Reviewed & no revision needed to existing SOP / Plan | Reviewed & revised existing SOP / Plan | Permit Citation | Description of Required SOPs / Plans |
|---|---|---|---|---|---|
| ☐ | ☐ | ☒ | ☐ | Part III.A.1 | SOP and/or schedule of inspections and maintenance activities of the structural controls and roadway stormwater collection system. |
| ☐ | ☐ | ☒ | ☐ | Part III.A.3 | SOP for the litter control program. |
| ☐ | ☐ | ☒ | ☐ | Part III.A.3 | SOP for the street sweeping program. |
| ☐ | ☐ | ☒ | ☐ | Part III.A.3 | SOP for inspections of equipment yards and maintenance shops that support road maintenance activities. |
| ☐ | ☐ | ☒ | ☐ | Part III.A.5 | SOP for inspections of waste treatment, storage, and disposal facilities not covered by an NPDES stormwater permit. |
| ☐ | ☐ | ☒ | ☐ | **Part III.A.7.c** | **Plan for proactive illicit discharge / connections / dumping inspections.*** |
| ☐ | ☐ | ☒ | ☐ | Part III.A.7.c | SOP for reactive illicit discharge / connections / dumping investigations. |
| ☐ | ☐ | ☒ | ☐ | Part III.A.7.c | Plan for illicit discharge training. |
| ☐ | ☐ | ☒ | ☐ | Part III.A.7.d | SOP for spill prevention and response efforts. |
| ☐ | ☐ | ☒ | ☐ | Part III.A.7.d | Plan for spill prevention and response training. |
| ☐ | ☐ | ☒ | ☐ | Part III.A.8 | SOP for inspections of high risk industrial facility outfalls. |
| ☐ | ☐ | ☒ | ☐ | **Part III.A.9.b** | **Plan for inspections of construction sites.*** |
| ☐ | ☐ | ☒ | ☐ | Part III.A.9.c | Plan for stormwater, erosion and sedimentation BMPs training. |

*** Revisions to these plans require DEP approval – please complete Section VIII.A of the annual report.**

| REMINDER LIST OF THE TMDL / BMAP REPORTS TO BE SUBMITTED SEPARATELY FROM AN ANNUAL REPORT | | |
|---|---|---|
| **Rule / Permit Citation** | **Report Title** | **Due Date** |
| Part VIII.B.3.a | **6 MONTHS from effective date of permit:** TMDL Prioritization Report. | 7/1/13 |
| Part VIII.B.3.b | **12 MONTHS from effective date of permit:** TMDL Monitoring and Assessment Plan. | 1/1/14 |
| Part VIII.B.3.c | **6 MONTHS from receiving analyses from the lab:** TMDL Monitoring Report. | TBD |
| Part VIII.B.4 | **30 MONTHS from start date per TMDL Prioritization Report:** A Bacterial Pollution Control Plan (BPCP). | TBD |

## BMAP Reporting

MS4 permittees are NOT required to submit the annual report required by any BMAP that applies to them since the NPDES Stormwater Staff can obtain them from the department's Watershed Planning and Coordination staff. However, to assure that the stormwater staff are aware of which BMAPs apply to the MS4 permittees and when the latest BMAP annual report was submitted, please complete the information below, if applicable:

| Rule/Permit Citation | BMAP Title | Date BMAP Annual Report Submitted to DEP |
|---|---|---|
| Part VIII.B.2 | | |
| Part VIII.B.2 | | |
| Part VIII.B.2 | | |
| Part VIII.B.2 | | |

## END OF REVISED TAILORED MS4 AR FORM – CYCLE 3 PERMIT

# Appendix A

***Ambient Water Quality Monitoring Results***
*(Permit Section III.A)*

## *Water Quality Analysis*

*(Permit Section III.A)*

Polk County collected data on Total Nitrogen (TN) and Total Phosphorus (TP) at each of the stations listed in Table 1 from January 2004 to January 2014.

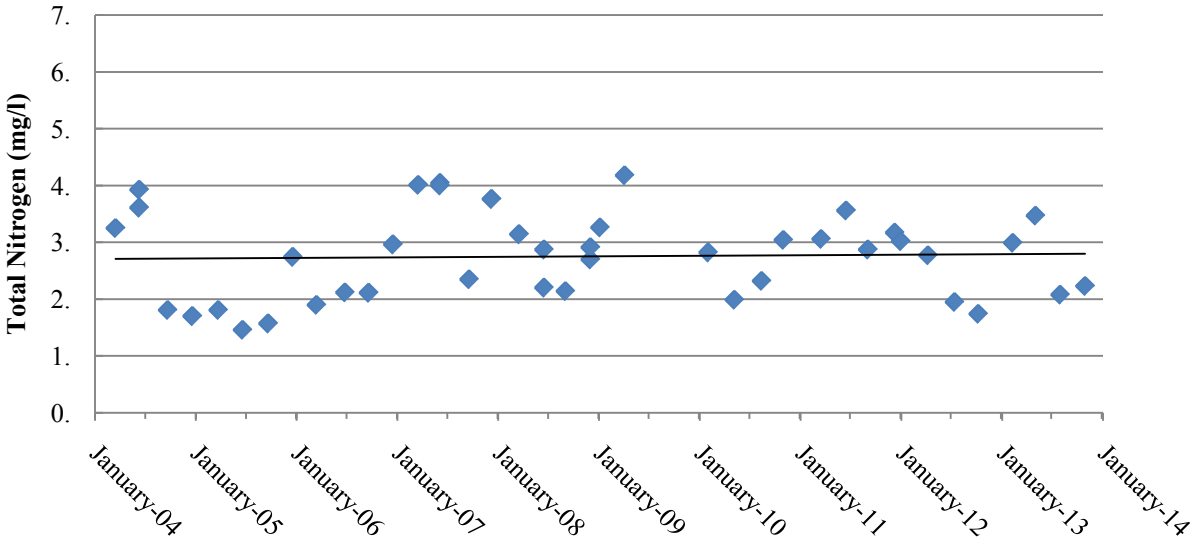
Below represents trends in water quality data obtained from Polk County monitoring stations where FDOT major outfalls have an influence in ambient water quality. FDOT's approach included mapping the Polk County ambient water quality monitoring stations along with FDOT's major outfalls. Only data from the County's ambient water quality monitoring stations that were located downstream from an FDOT major outfall were analyzed. The Polk County water quality stations which do not receive any influence from FDOT major outfalls are not reported here, and in some cases, there were no monitoring stations downstream of FDOT major outfalls to report.

Table 1 provides a list of FDOT major outfalls and the associated Polk County monitoring stations. Figure 1 shows the locations of the FDOT major outfalls and the Polk County monitoring stations. Tables 2 through 49 show the water quality data at the Polk County monitoring stations and the trend analysis.

Table 1. FDOT major outfall and associated Polk County water quality monitoring station

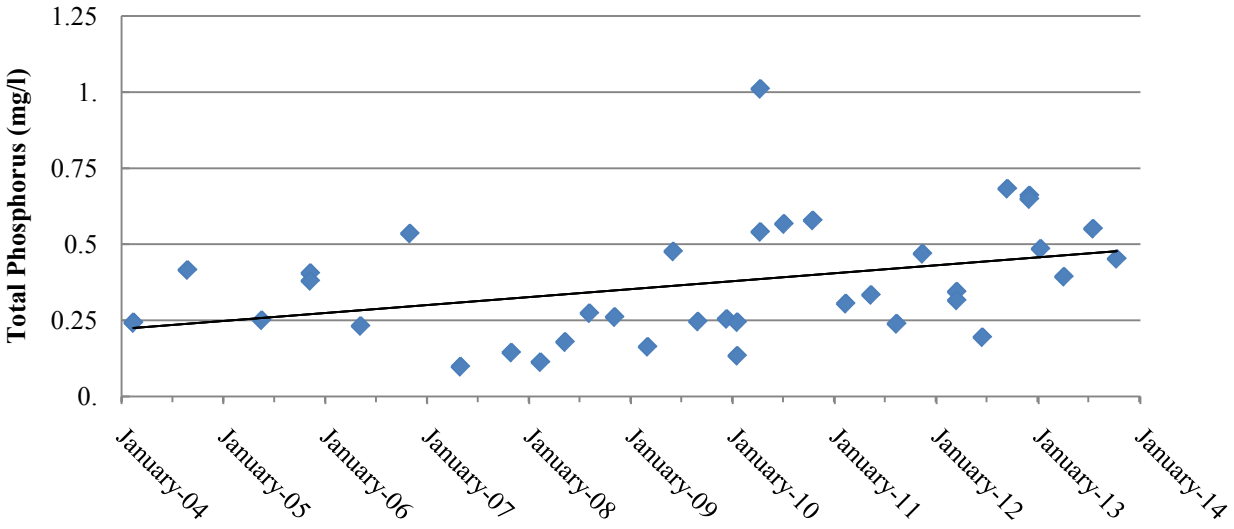
| Outfall ID | Polk County Station ID | Outfall ID | Polk County Station ID |
|---|---|---|---|
| FDOT-600-10 | none | FDOT-37-15 | none |
| FDOT-35-170 | Gibson1 | FDOT-37-10 | none |
| FDOT-546-15 | none | FDOT-60-20 | none |
| FDOT-539-5 | none | FDOT-37-20 | none |
| FDOT-563-15 | Hunter1 | FDOT-60-25 | none |
| FDOT-37-65 | Hunter1 | FDOT-60-130 | none |
| FDOT-563-8 | Hunter1 | FDOT-37-15 | none |
| FDOT-37-60 | Hollingsworth1 | FDOT-37-10 | none |
| FDOT-563-30 | none | FDOT-60-20 | none |
| FDOT-563-25 | none | FDOT-37-20 | none |
| FDOT-546-30 | Parker1 | FDOT-60-25 | none |
| FDOT-546-75 | Parker1 | FDOT-60-30 | none |
| FDOT-600-30 | Parker1 | FDOT-555-35 | none |
| FDOT-659-15 | Saddle Crk Pk Y | FDOT-555-40 | Lulu1 |
| FDOT-35-145 | Bonny1 | FDOT-540-65 | none |
| FDOT-35-135 | Banana4 | FDOT-540-60 | Summit1 |
| FDOT-60-45 | none | FDOT-542-05 | Ltl Elbert1 |
| FDOT-60-35 | none | FDOT-555-55 | Spring1 |
| FDOT-37-50 | none | FDOT-544-115 | Hartridge1 |
| FDOT-540-70 | Winterset1 | OF187 | none |
| FDOT-540-75 | none | FDOT-555-85 | Conine1 |
| FDOT-600-210 | Lena1 | FDOT-35-155 | Parker1 |
| FDOT-655-10 | Lena Run10 | FDOT-600-235 | none |
| FDOT-544-90 | Blue1 | OF16120-3504-03 | Eagle1 |
| FDOT-35-105 | none | OF16300-3511-05 | none |
| FDOT-35-100 | Peace Rvr10 | OF16300-3511-03 | Roy1 |
| FDOT-555-25 | McLeod1 | OF16300-3511-01 | none |
| FDOT-555-30 | McLeod1 | OF16118-3503-03 | none |
| FDOT-35-65 | Ft Meade Pit NE | OF16320-3408-11 | none |
| FDOT-35-50 | Ft Meade Pit SW | OF16320-3409-01 | none |
| FDOT-35-45 | none | Polk4 | none |
| FDOT-600-275 | Haines1 | Polk5 | none |
| FDOT-600-280 | Haines1 | FDOT-542-07 | Ltl Elbert1 |
| FDOT-60-130 | none | | |

Table 2. Total Nitrogen at Banana4 (FDOT major outfall: FDOT-35-135)



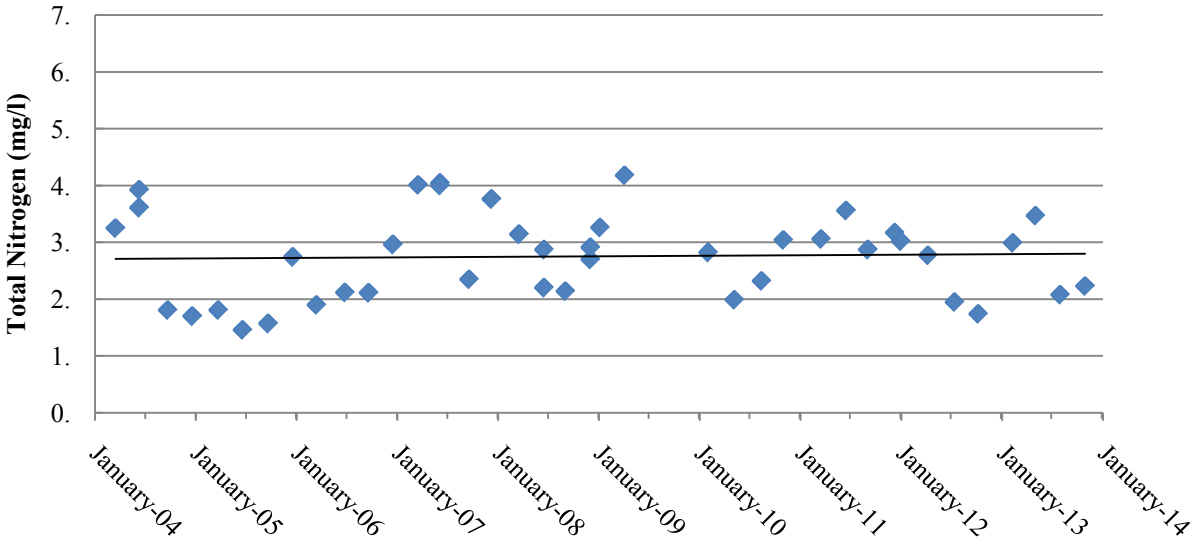

There is an overall positive trend in Total Nitrogen at Banana4. The correlation coefficient is 0.15, so the trend line of the data explains 15% of the variance in the data.

Table 3. Total Phosphorus at Banana4 (FDOT major outfall: FDOT-35-135)



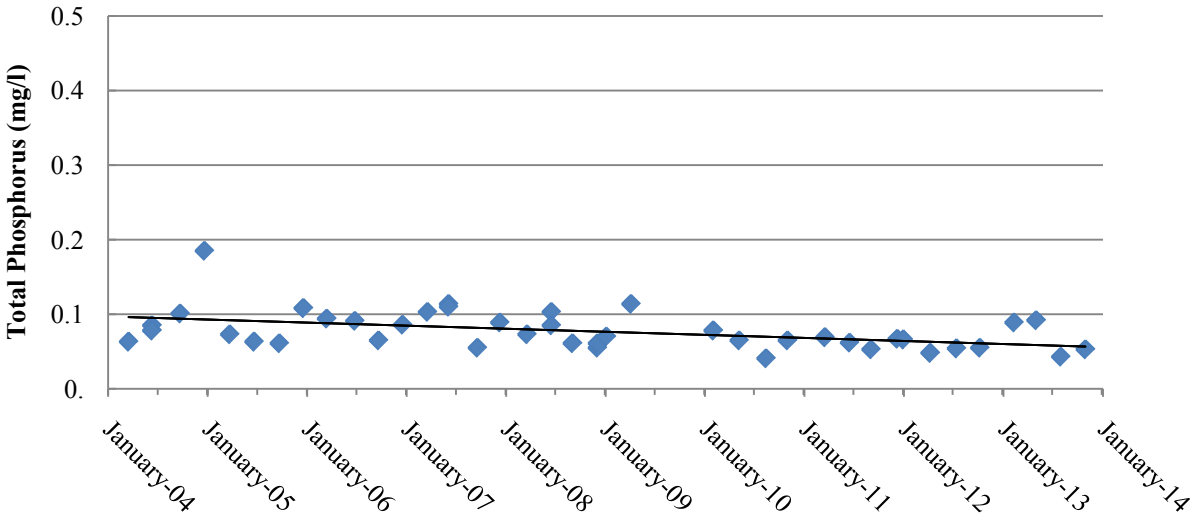

There is an overall positive trend in Total Phosphorus at Banana4. The correlation coefficient is 0.38, so the trend line of the data explains 38% of the variance in the data.

Table 4. Total Nitrogen at Blue1 (FDOT major outfall: FDOT-544-90)



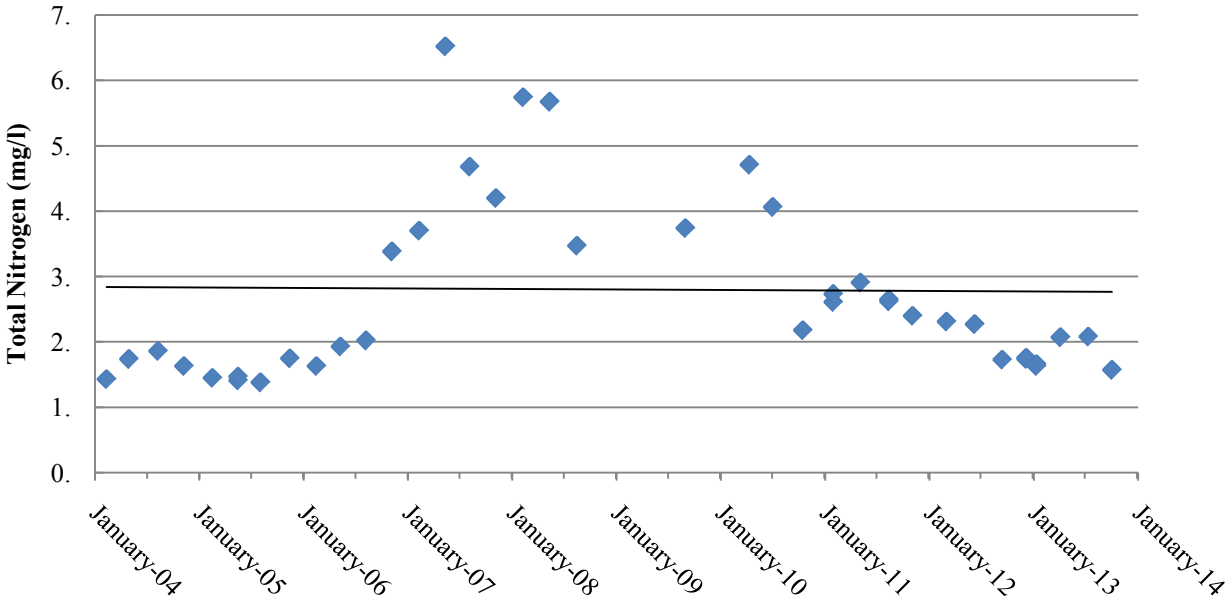

There is an overall positive trend in Total Nitrogen at Blue1. The correlation coefficient is 0.04, so the trend line of the data explains 4% of the variance in the data.

Table 5. Total Phosphorus at Blue1 (FDOT major outfall: FDOT-544-90)



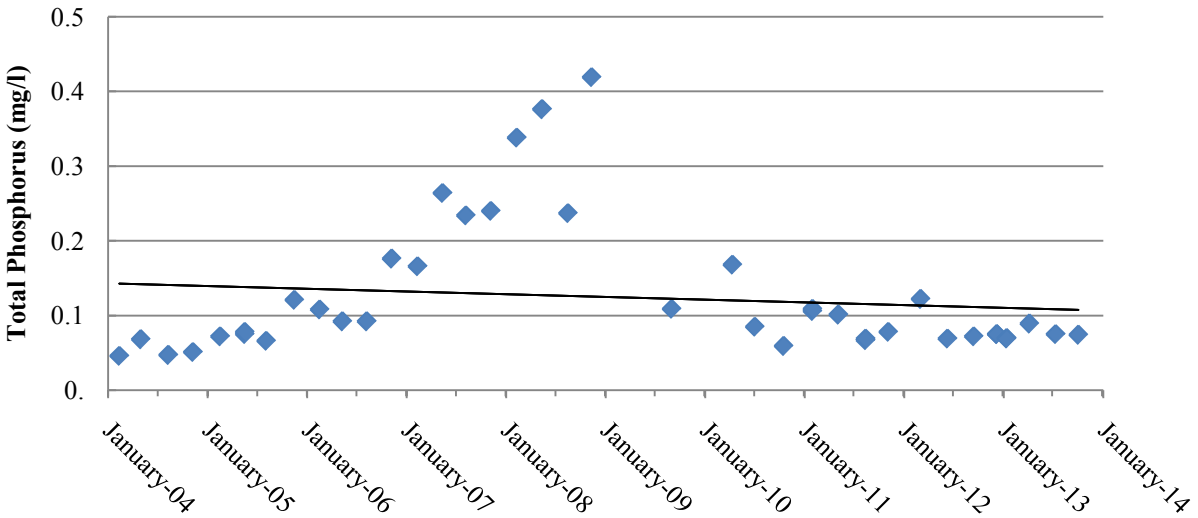

There is an overall negative trend in Total Phosphorus at Blue1. The correlation coefficient is -0.45, so the trend line of the data explains 45% of the variance in the data.

Table 6. Total Nitrogen at Bonny1 (FDOT major outfall: FDOT-35-145)



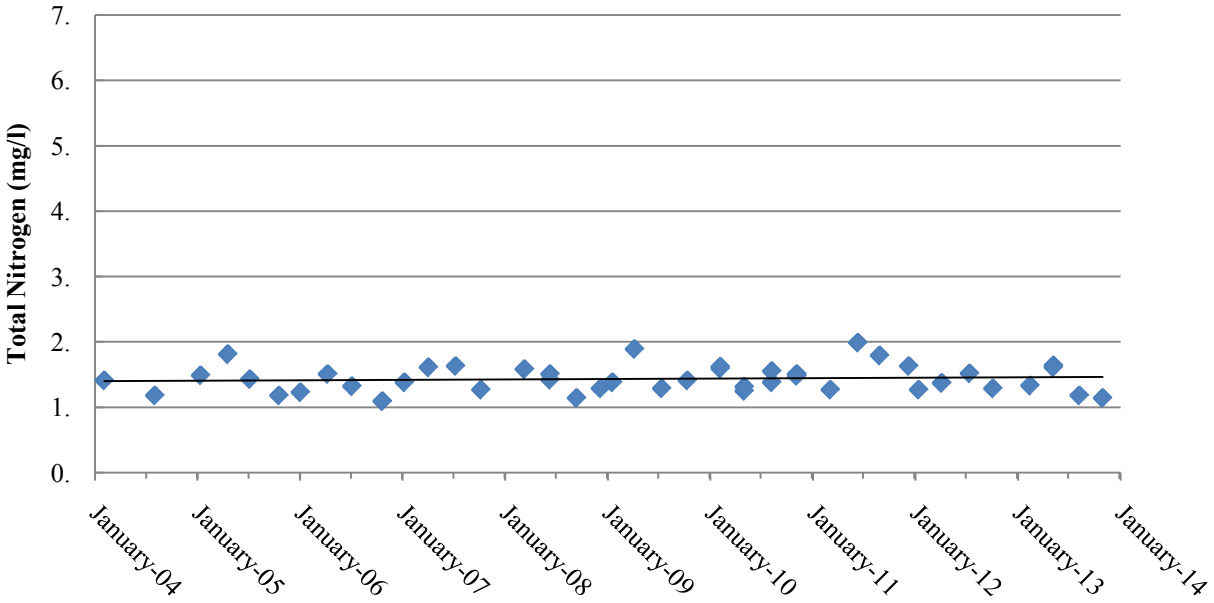

There is an overall negative trend in Total Nitrogen at Bonny1. The correlation coefficient is -0.01, so the trend line of the data explains 1% of the variance in the data.

Table 7. Total Phosphorus at Bonny1 (FDOT major outfall: FDOT-35-145)



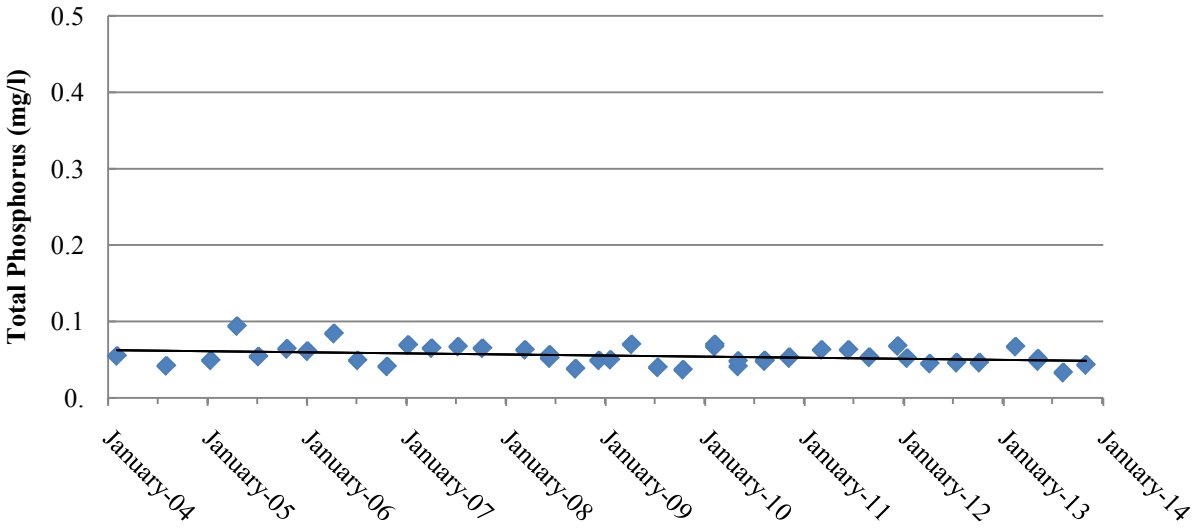

There is an overall negative trend in Total Phosphorus at Bonny1. The correlation coefficient is -0.12, so the trend line of the data explains 12% of the variance in the data.

Table 8. Total Nitrogen at Conine1 (FDOT major outfall: FDOT-555-85)



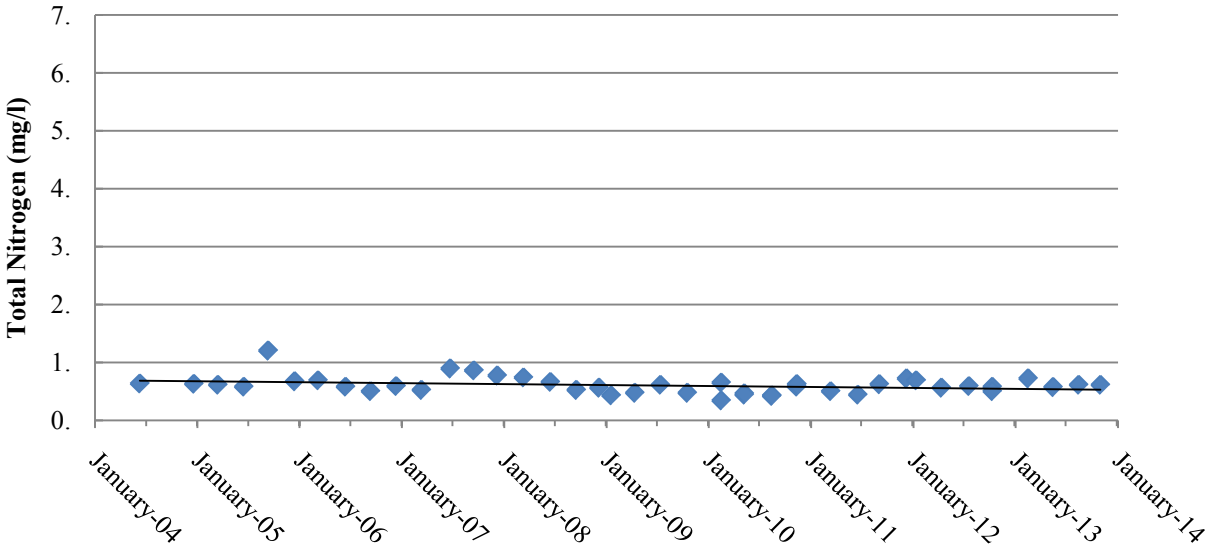

There is an overall positive trend in Total Nitrogen at Conine1. The correlation coefficient is 0.08, so the trend line of the data explains 8% of the variance in the data.

Table 9. Total Phosphorus at Conine1 (FDOT major outfall: FDOT-555-85)



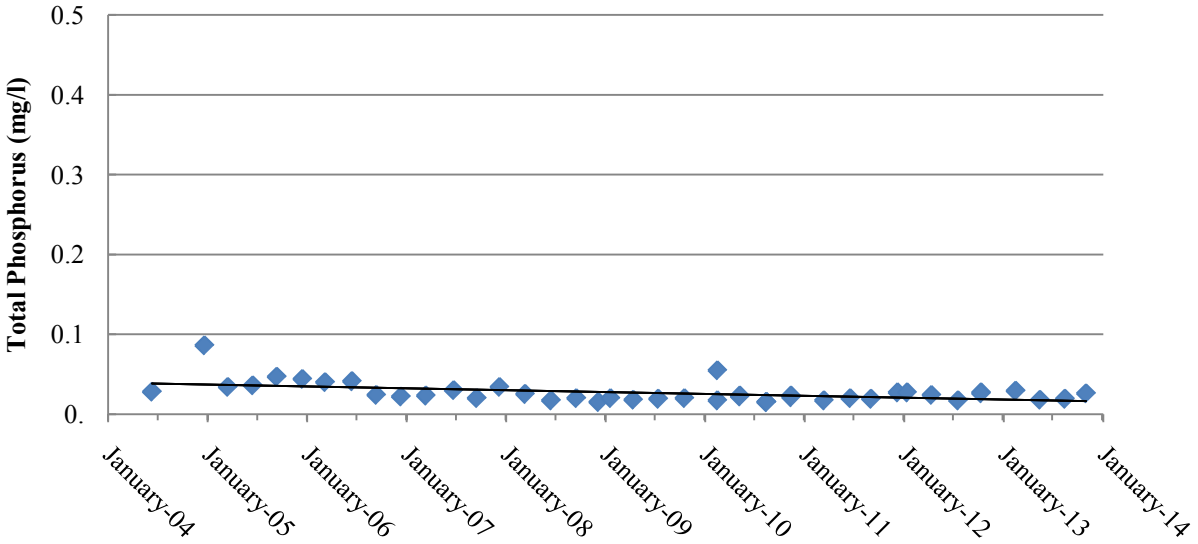

There is an overall negative trend in Total Phosphorus at Conine1. The correlation coefficient is -0.31, so the trend line of the data explains 31% of the variance in the data.

Table 10. Total Nitrogen at Eagle1 (FDOT major outfall: OF16120-3504-03)



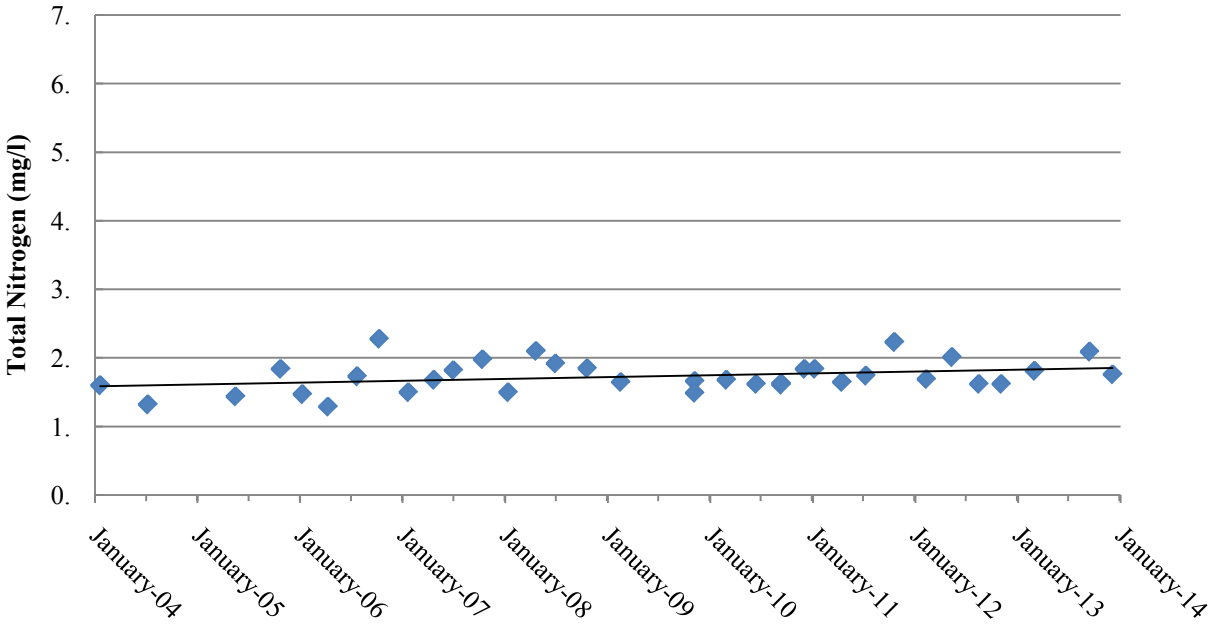

There is an overall negative trend in Total Nitrogen at Eagle1. The correlation coefficient is -0.29, so the trend line of the data explains 29% of the variance in the data.

Table 11. Total Phosphorus at Eagle1 (FDOT major outfall: OF16120-3504-03)



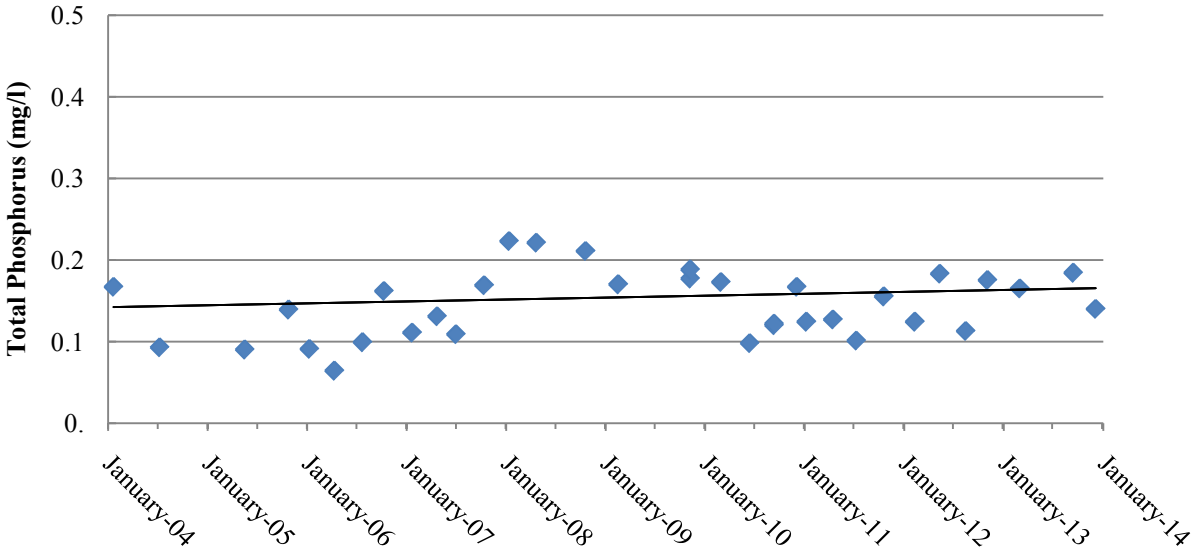

There is an overall negative trend in Total Phosphorus at Eagle1. The correlation coefficient is -0.48, so the trend line of the data explains 48% of the variance in the data.

Table 12. Total Nitrogen at Ft Meade Pit NE (FDOT major outfall: FDOT-35-65)



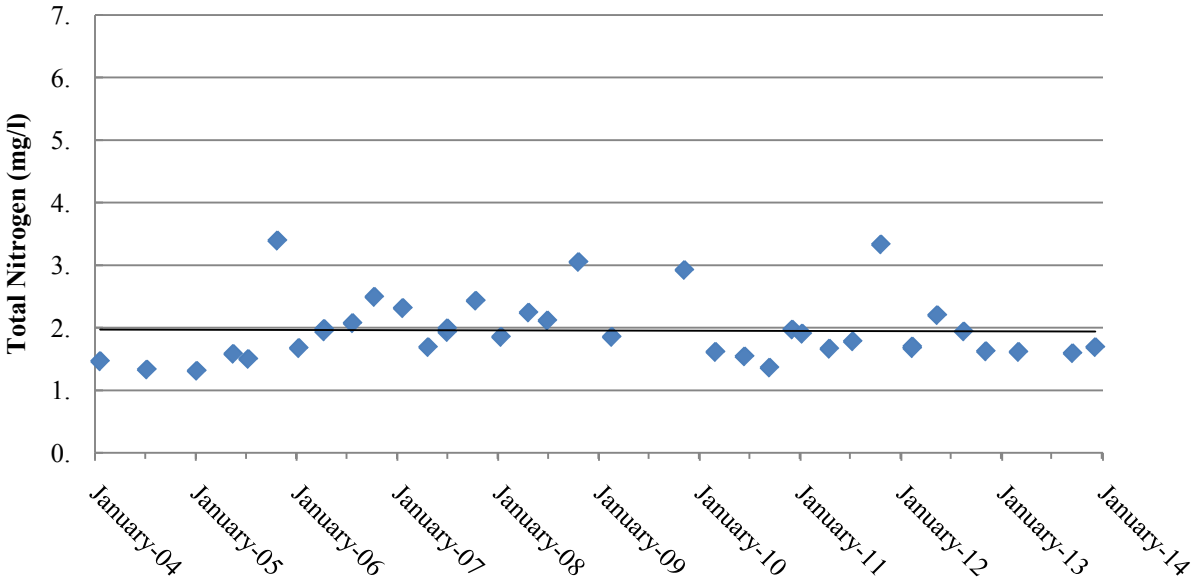

There is an overall positive trend in Total Nitrogen at Ft Meade Pit NE. The correlation coefficient is 0.32, so the trend line of the data explains 32% of the variance in the data.

Table 13. Total Phosphorus at Ft. Meade Pit NE (FDOT major outfall: FDOT-35-65)



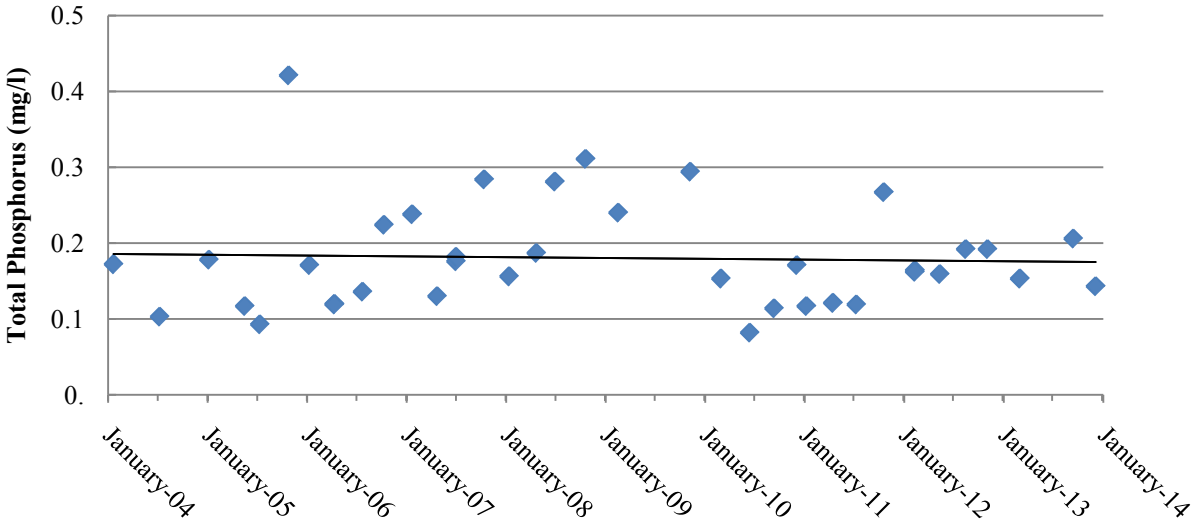

There is an overall positive trend in Total Phosphorus at Ft Meade Pit NE. The correlation coefficient is 0.09, so the trend line of the data explains 9% of the variance in the data.

Table 14. Total Nitrogen at Ft Meade Pit SW (FDOT major outfall: FDOT-35-50)



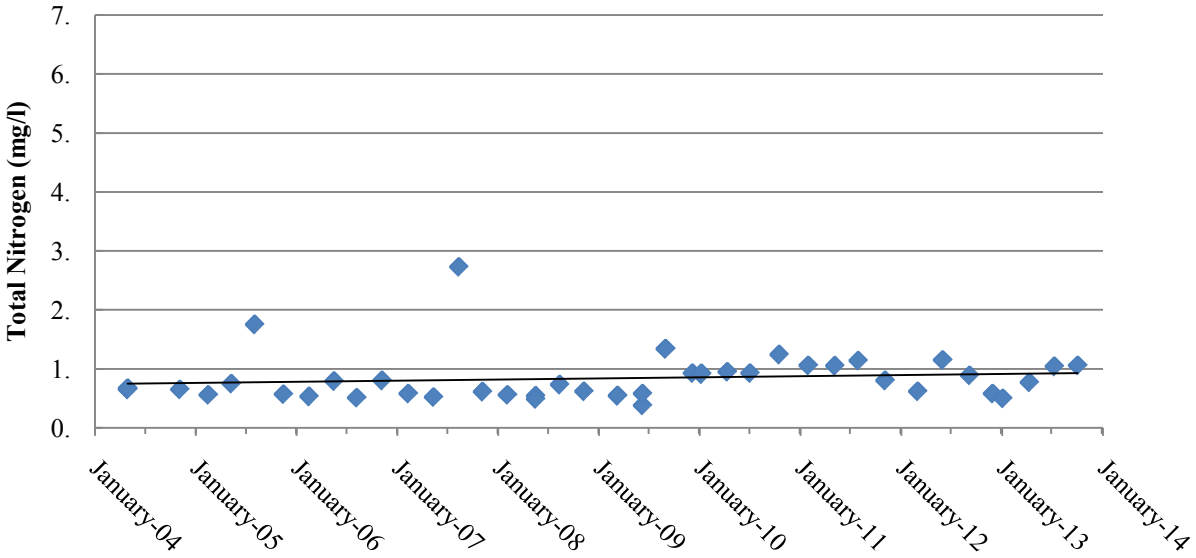

There is an overall negative trend in Total Nitrogen at Ft Meade Pit SW. The correlation coefficient is -0.02, so the trend line of the data explains 2% of the variance in the data.

Table 15. Total Phosphorus at Ft Meade Pit SW (FDOT major outfall: FDOT-35-50)



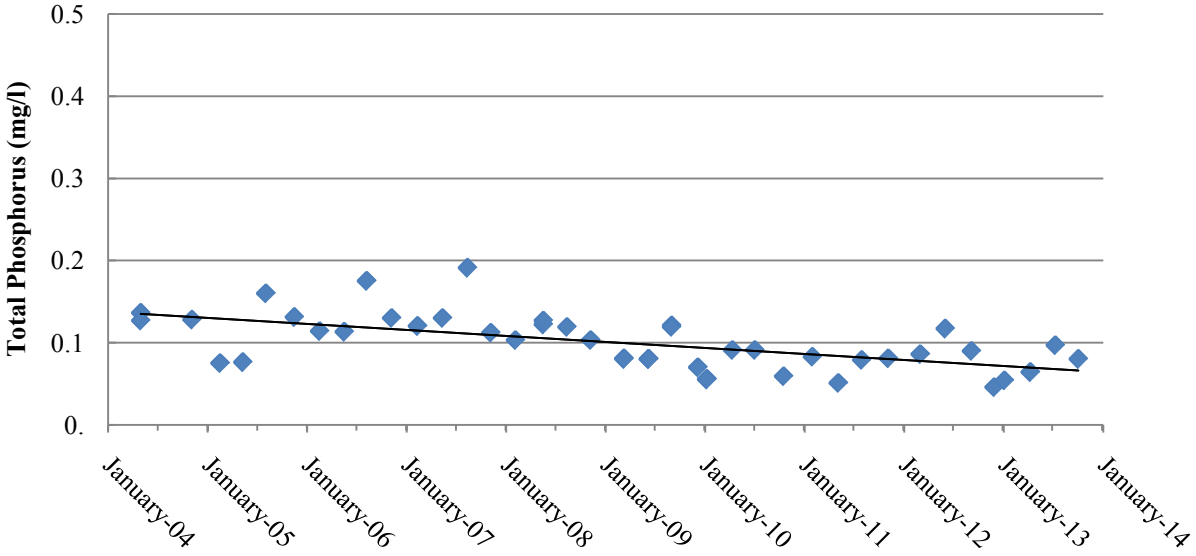

There is an overall negative trend in Total Phosphorus at Ft Meade Pit SW. The correlation coefficient is -0.04, so the trend line of the data explains 4% of the variance in the data.

Table 16. Total Nitrogen at Gibson1 (FDOT major outfall: FDOT-35-170)



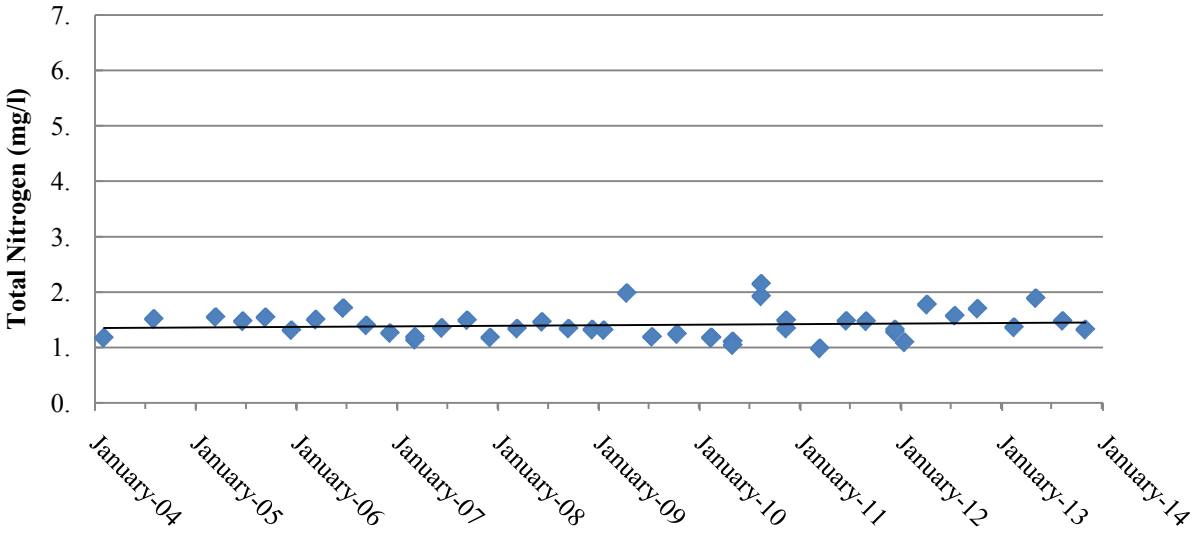

There is an overall positive trend in Total Nitrogen at Gibson1. The correlation coefficient is 0.12, so the trend line of the data explains 12% of the variance in the data.

Table 17. Total Phosphorus at Gibson1 (FDOT major outfall: FDOT-35-170)



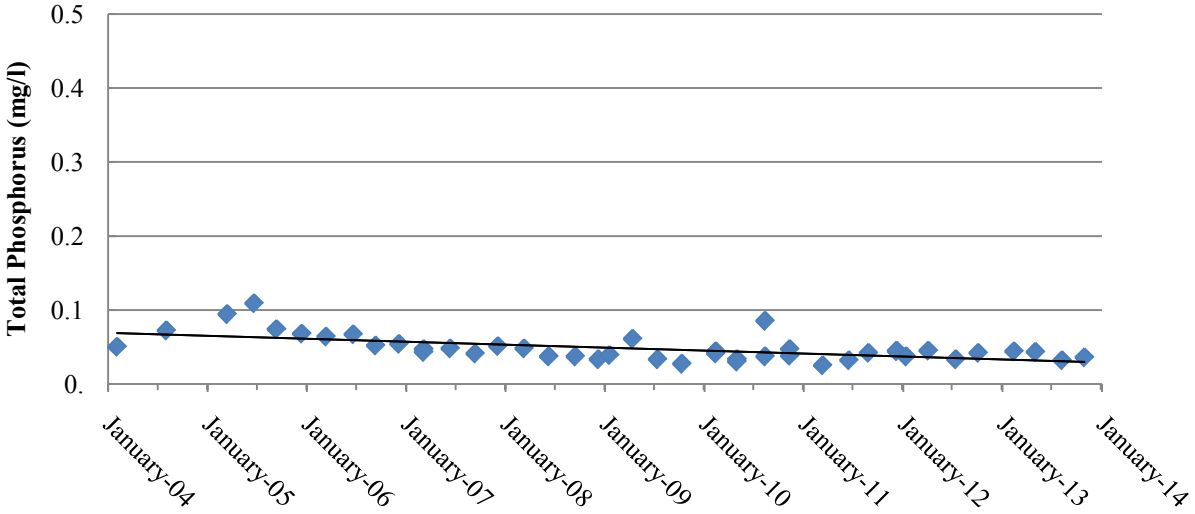

There is an overall negative trend in Total Phosphorus at Gibson1. The correlation coefficient is -0.60, so the trend line of the data explains 60% of the variance in the data.

Table 18. Total Nitrogen at Haines1 (FDOT major outfall: FDOT-600-275 & FDOT-600-280)



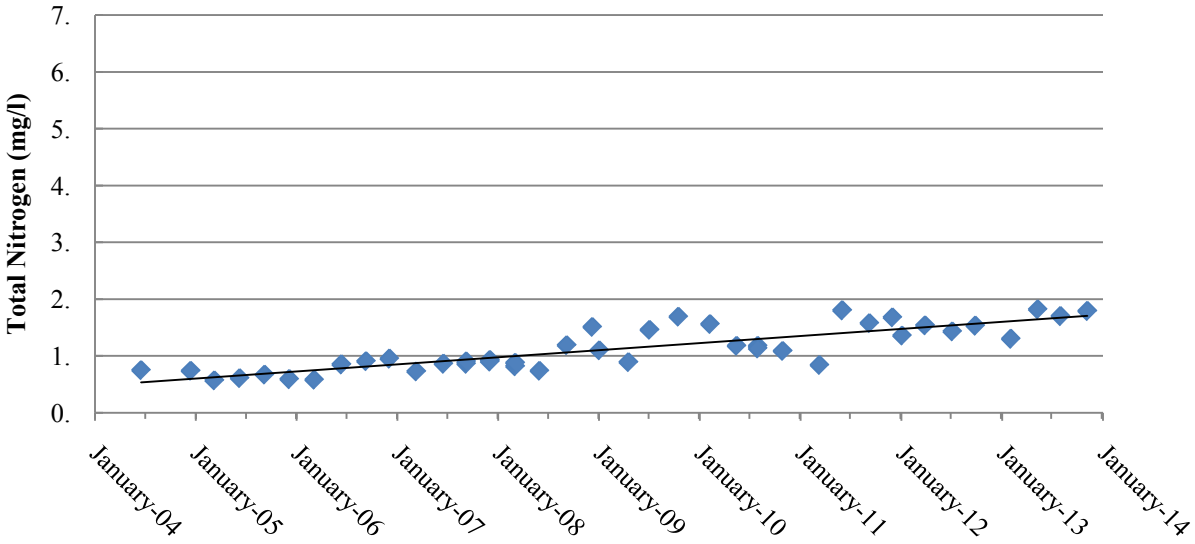

There is an overall positive trend in Total Nitrogen at Haines1. The correlation coefficient is 0.10, so the trend line of the data explains 10% of the variance in the data.

Table 19. Total Phosphorus at Haines1 (FDOT major outfall: FDOT-600-275 & FDOT-600-280)



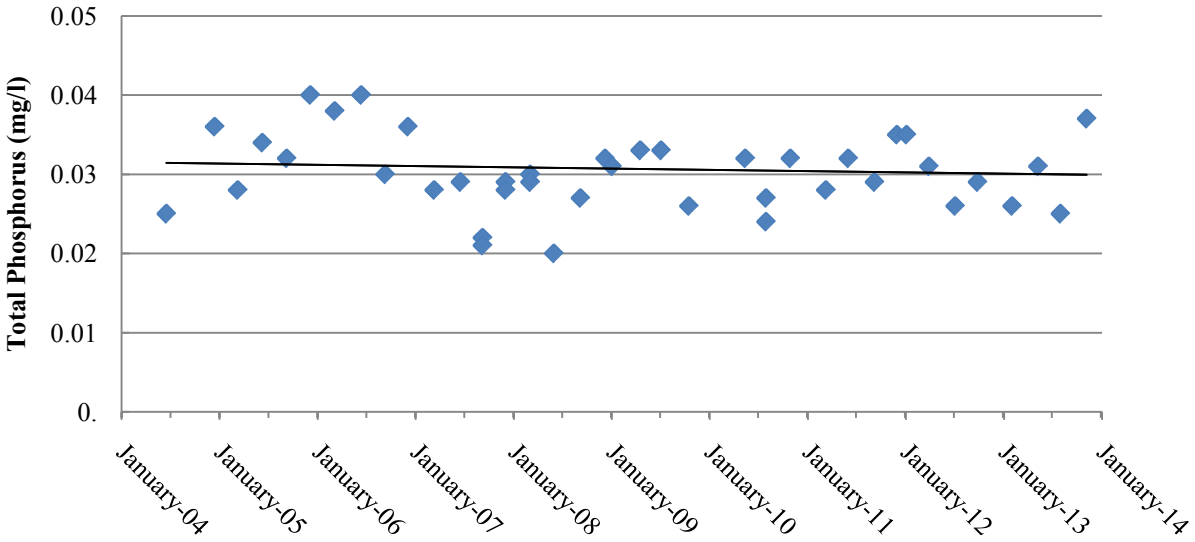

There is an overall negative trend in Total Phosphorus at Haines1. The correlation coefficient is -0.60, so the trend line of the data explains 60% of the variance in the data.

Table 20. . Total Nitrogen at Hatridge1 (FDOT major outfall: FDOT-544-115)



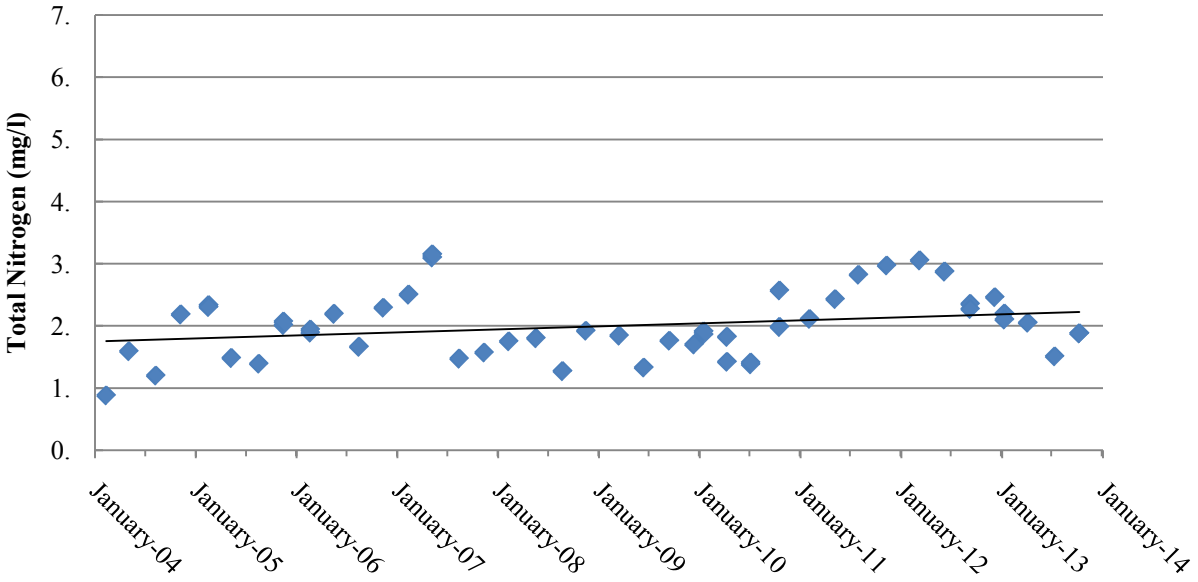

There is an overall positive trend in Total Nitrogen at Hatridge1. The correlation coefficient is 0.85, so the trend line of the data explains 85% of the variance in the data.

Table 21. Total Phosphorus at Hatridge1 (FDOT major outfall: FDOT-544-115)



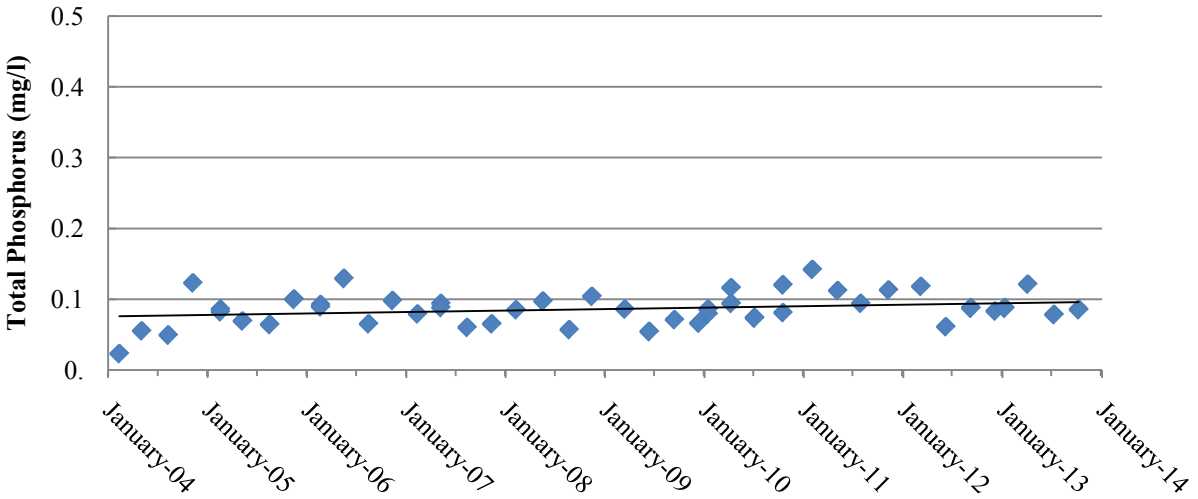

There is an overall negative trend in Total Phosphorus at Hatridge1. The correlation coefficient is -0.07, so the trend line of the data explains 7% of the variance in the data.

Table 22. Total Nitrogen at Hollingsworth1 (FDOT major outfall: FDOT-37-60)



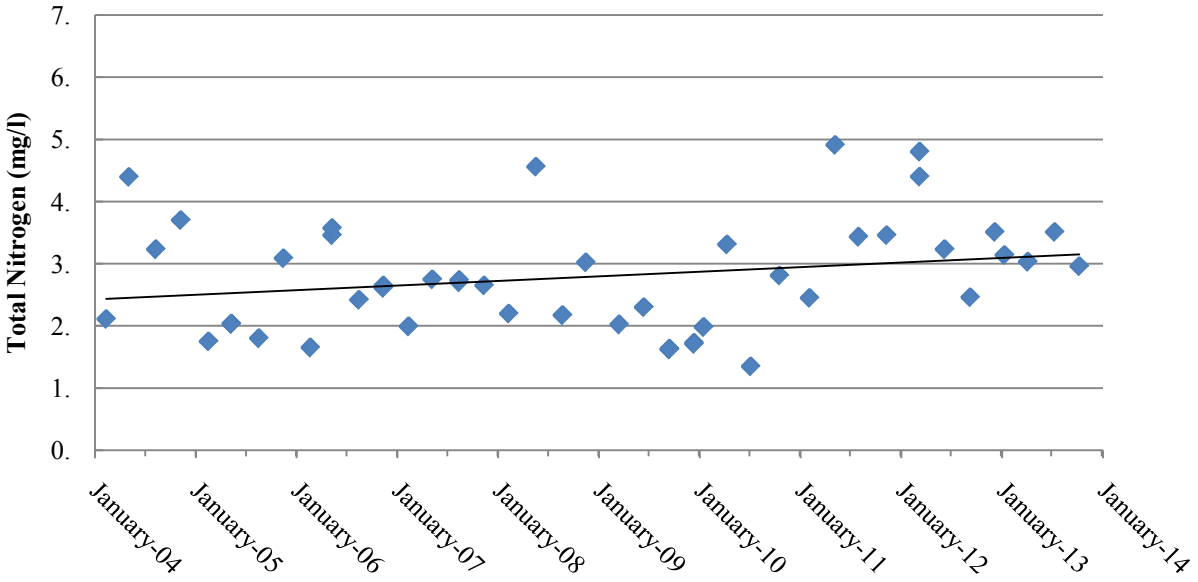

There is an overall positive trend in Total Nitrogen at Hollingsworth1. The correlation coefficient is 0.32, so the trend line of the data explains 32% of the variance in the data.

Table 23. Total Phosphorus at Hollingsworth1 (FDOT major outfall: FDOT-37-60)



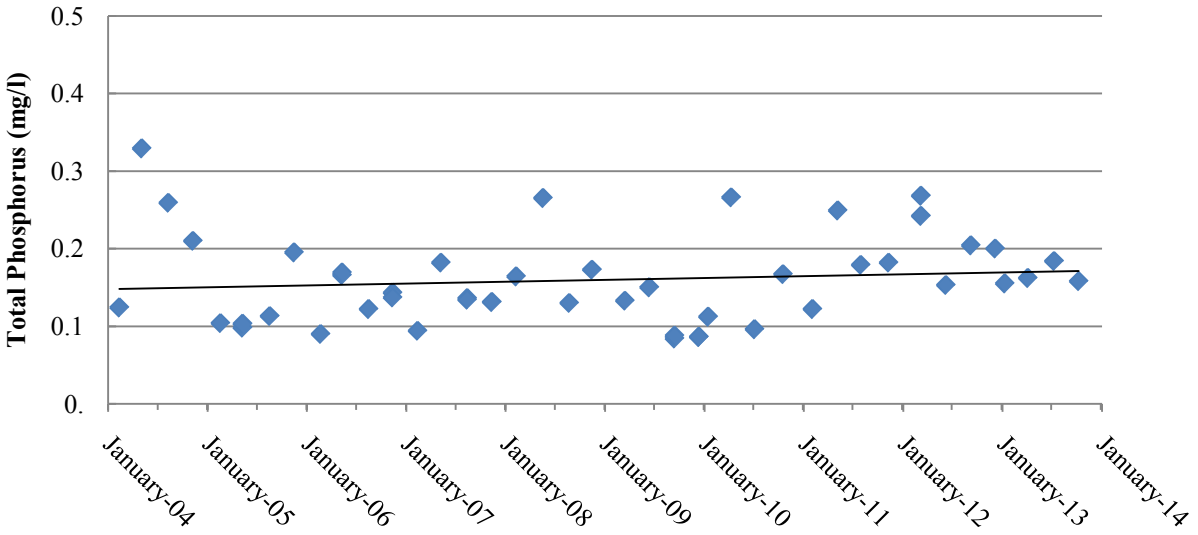

There is an overall positive trend in Total Phosphorus at Hollingsworth1. The correlation coefficient is 0.27, so the trend line of the data explains 27% of the variance in the data.

Table 24. Total Nitrogen at Hunter1 (FDOT major outfall: FDOT-563-15, FDOT-37-65, & FDOT-563-8)



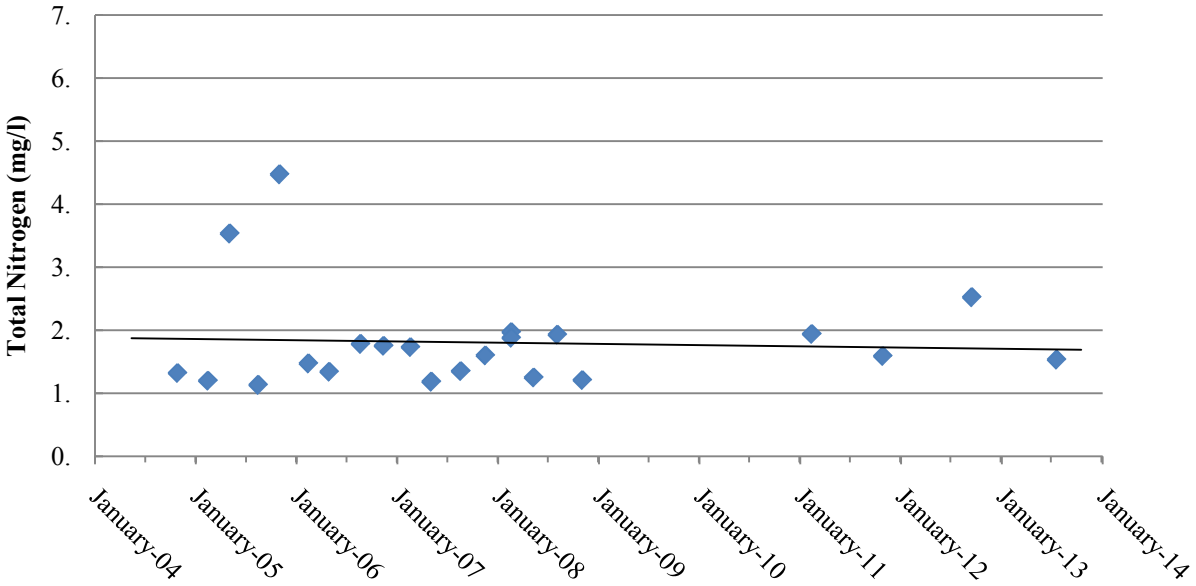

There is an overall positive trend in Total Nitrogen at Hunter1. The correlation coefficient is 0.23, so the trend line of the data explains 23% of the variance in the data.

Table 25. Total Phosphorus at Hunter1 (FDOT major outfall: FDOT-563-15, FDOT-37-65, & FDOT-563-8)



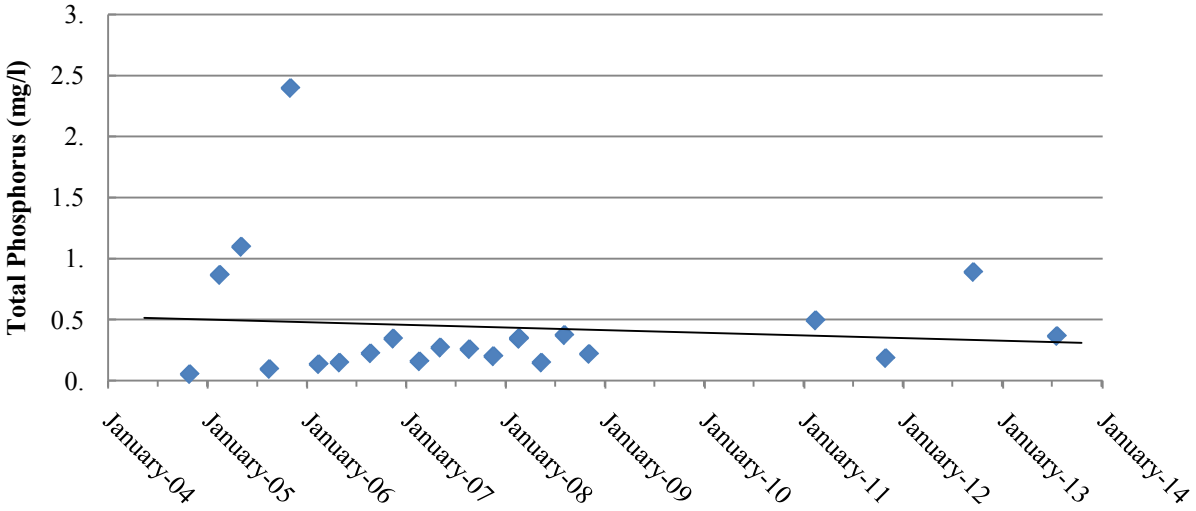

There is an overall positive trend in Total Phosphorus at Hunter1. The correlation coefficient is 0.12, so the trend line of the data explains 12% of the variance in the data.

Table 26. Total Nitrogen at LenaRun10 (FDOT major outfall: FDOT-655-10)



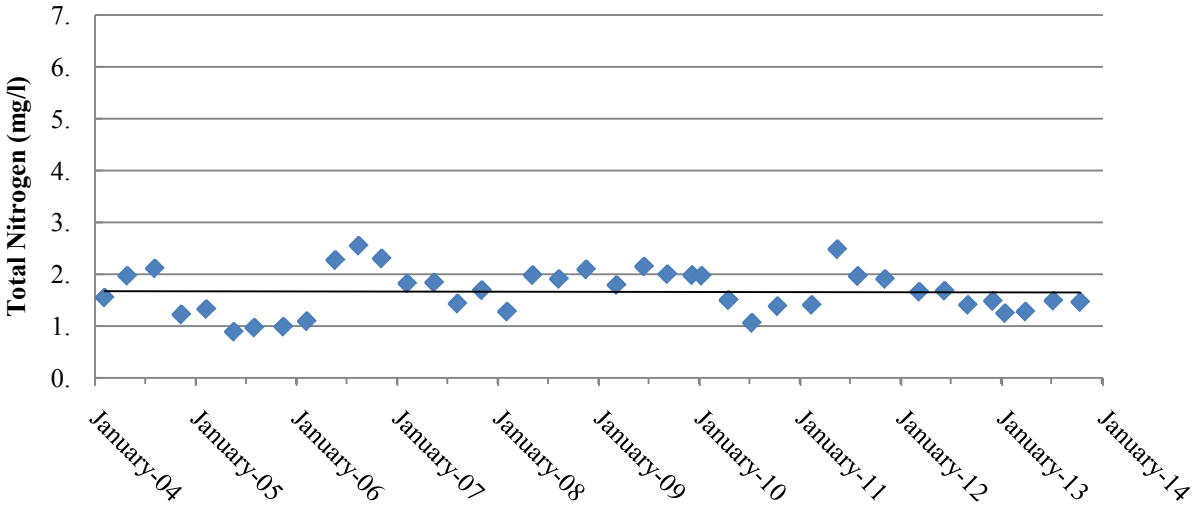

There is an overall negative trend in Total Nitrogen at LenaRun1. The correlation coefficient is -0.06, so the trend line of the data explains 6% of the variance in the data.

Table 27. Total Phosphorus at LenaRun10 (FDOT major outfall: FDOT-655-10)



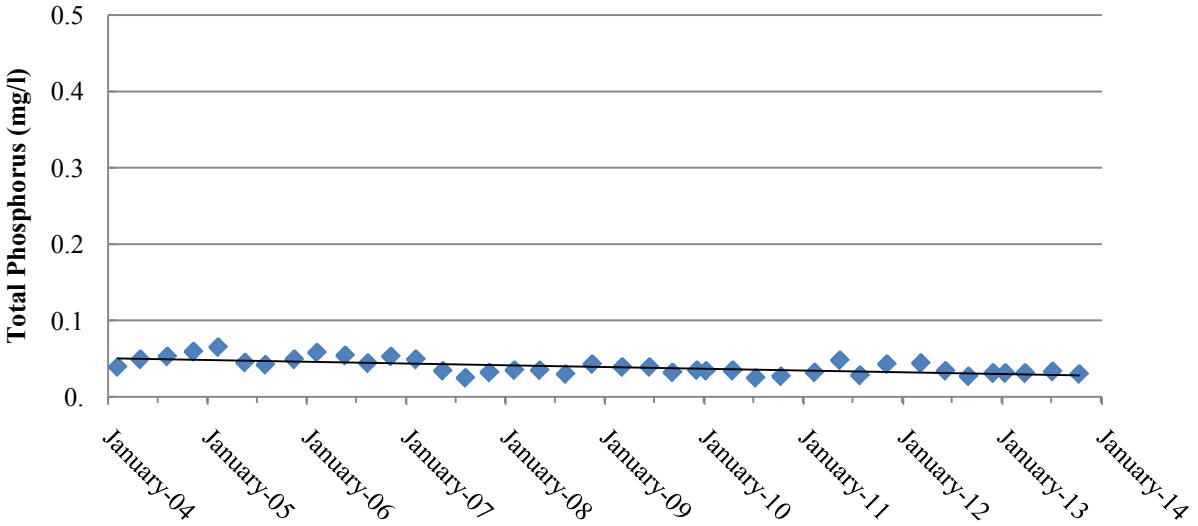

There is an overall negative trend in Total Phosphorus at LenaRun1. The correlation coefficient is -0.10, so the trend line of the data explains 10% of the variance in the data.

Table 28. Total Nitrogen at Lena1 (FDOT major outfall: FDOT-600-210)



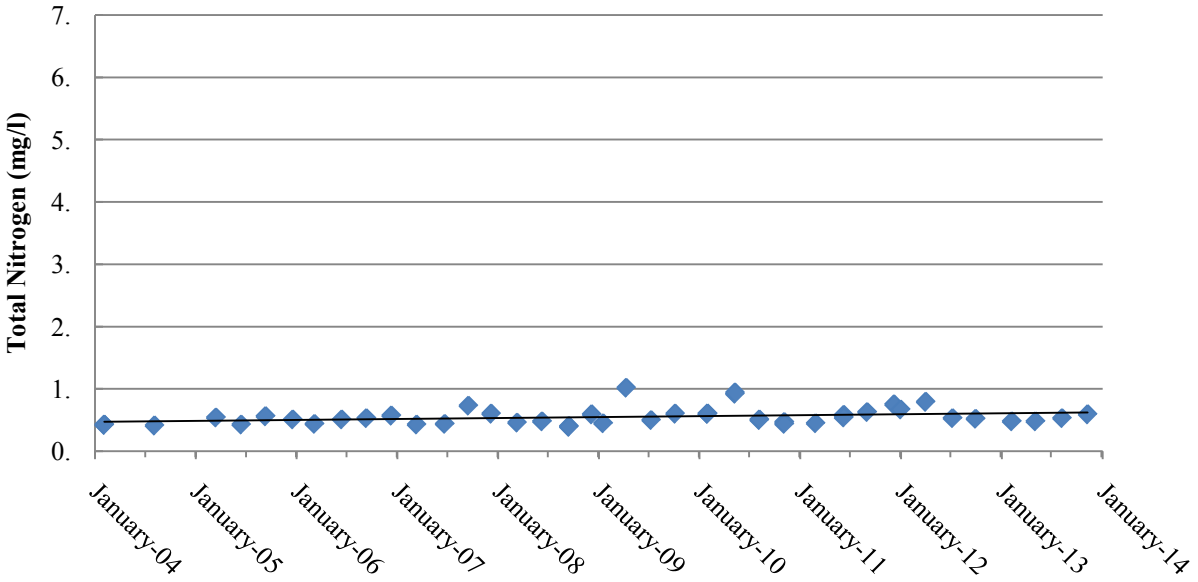

There is an overall negative trend in Total Nitrogen at Lena1. The correlation coefficient is -0.01, so the trend line of the data explains 1% of the variance in the data.

Table 29. Total Phosphorus at Lena1 (FDOT major outfall: FDOT-600-210)



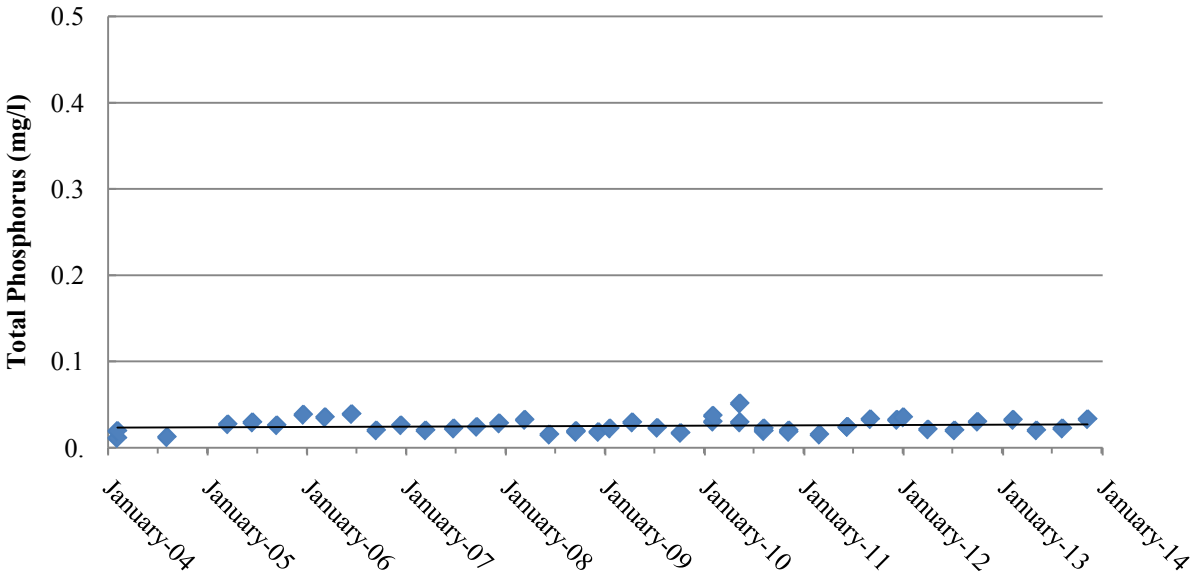

There is an overall negative trend in Total Phosphorus at Lena1. The correlation coefficient is -0.65, so the trend line of the data explains 65% of the variance in the data.

Table 30. Total Nitrogen at Ltl Elbert1 (FDOT major outfall: FDOT-542-05 & FDOT-542-07)



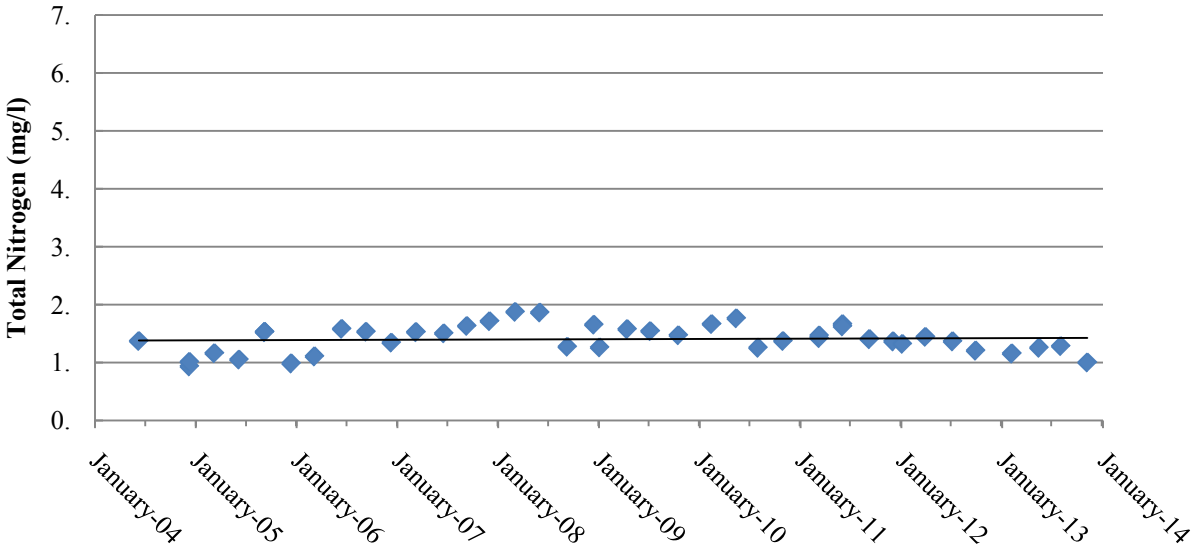

There is an overall positive trend in Total Nitrogen at Ltl Elbert1. The correlation coefficient is 0.29, so the trend line of the data explains 29% of the variance in the data.

Table 31. Total Phosphorus at Ltl Elbert1 (FDOT major outfall: FDOT-542-05 & FDOT-542-07)



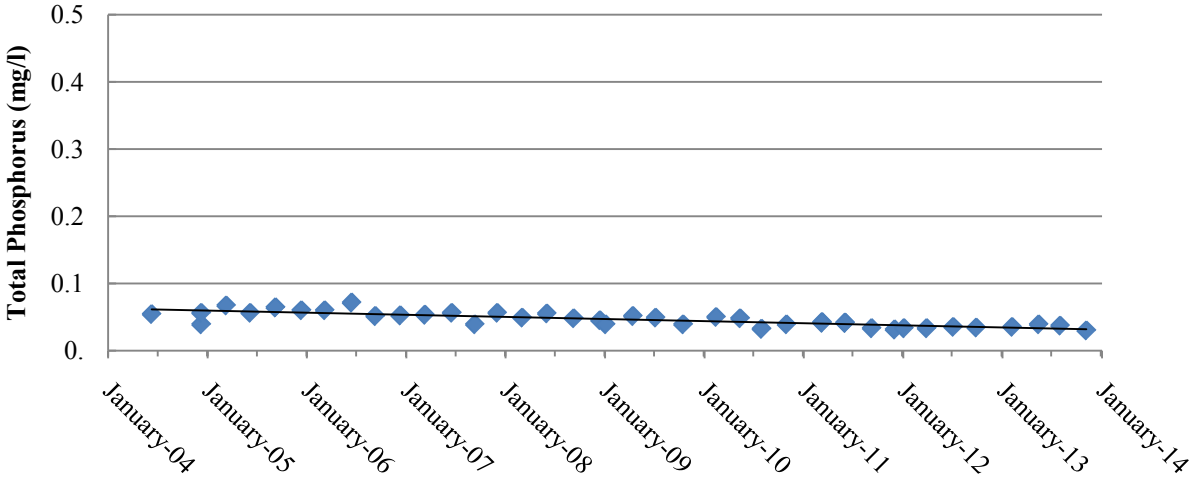

There is an overall positive trend in Total Phosphorus at Ltl Elbert1. The correlation coefficient is 0.14, so the trend line of the data explains 14% of the variance in the data.

Table 32. Total Nitrogen at Lulu1 (FDOT major outfall: FDOT-555-40)



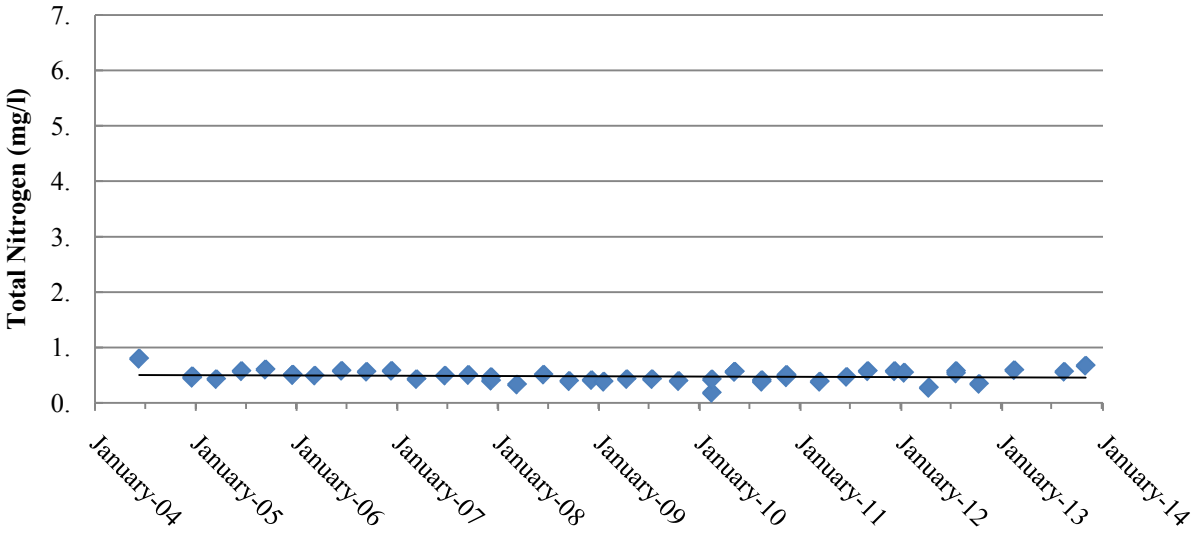

There is an overall positive trend in Total Nitrogen at Lulu1. The correlation coefficient is 0.06, so the trend line of the data explains 6% of the variance in the data.

Table 33. Total Phosphorus at Lulu1 (FDOT major outfall: FDOT-555-40)



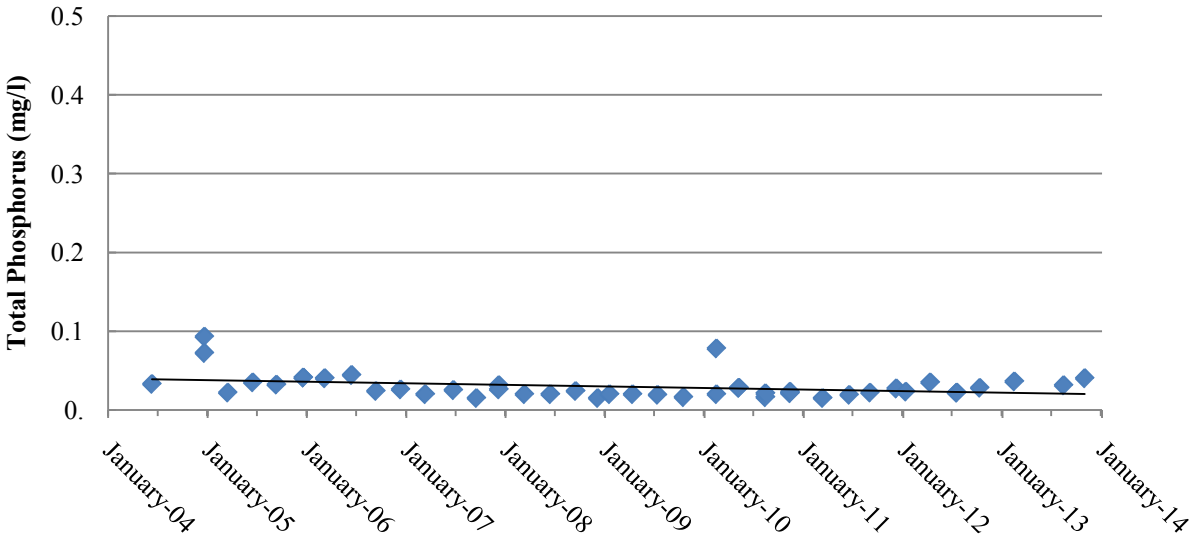

There is an overall negative trend in Total Phosphorus at Lulu1. The correlation coefficient is 0.14, so the trend line of the data explains 14% of the variance in the data.

Table 34. Total Nitrogen at McLeod1 (FDOT major outfall: FDOT-555-25 & FDOT-555-30)



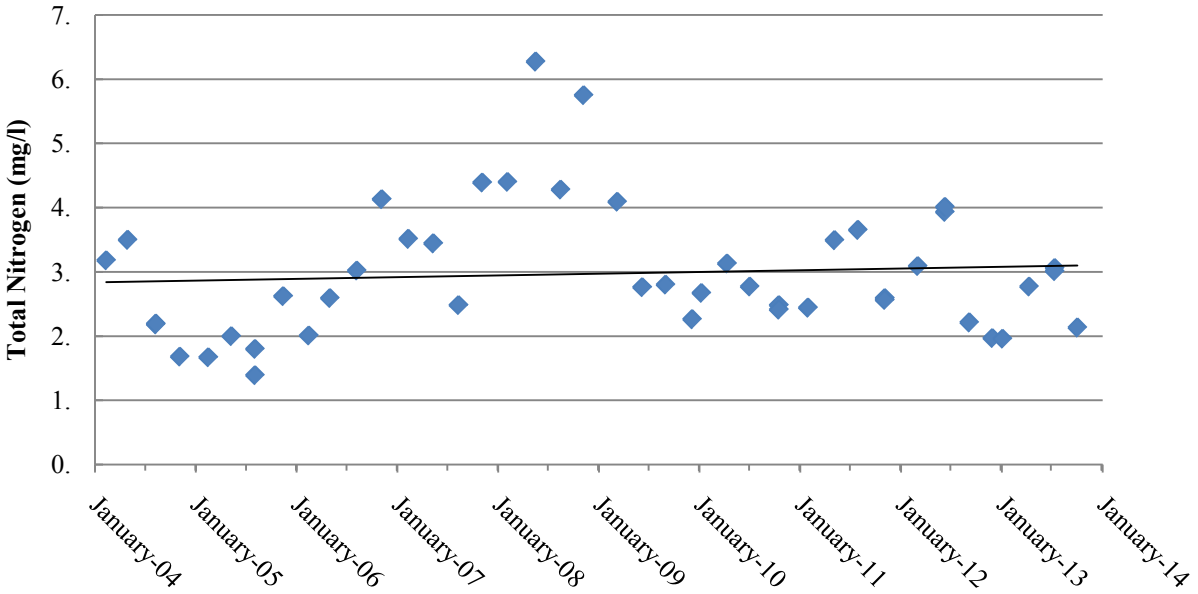

There is an overall negative trend in Total Nitrogen at McLeod1. The correlation coefficient is -0.12, so the trend line of the data explains 12% of the variance in the data.

Table 35. Total Phosphorus at McLeod1 (FDOT major outfall: FDOT-555-25 & FDOT-555-30)



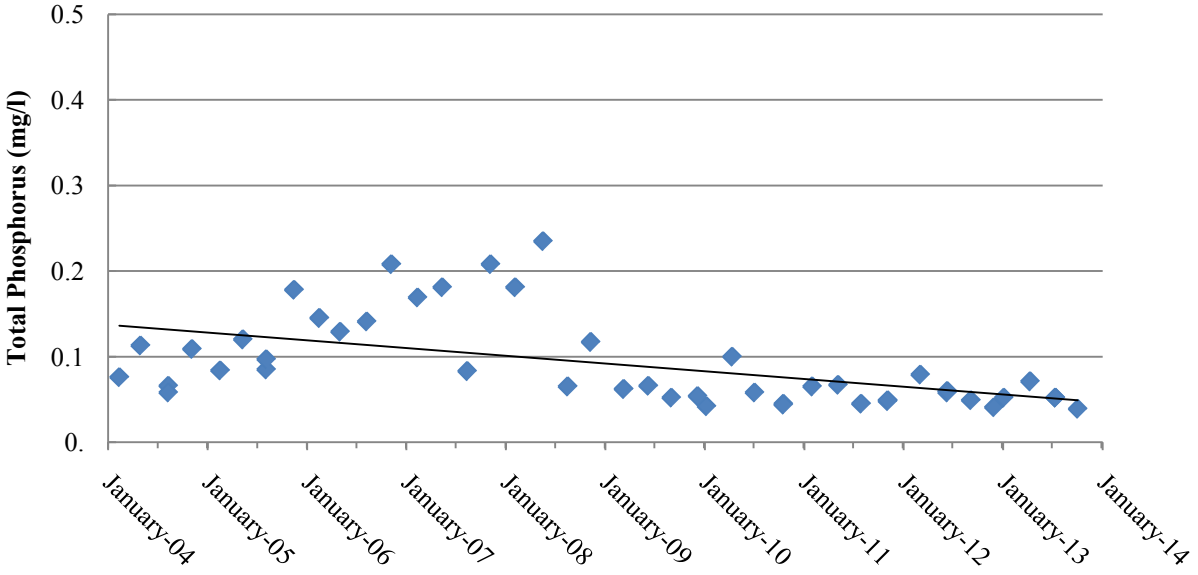

There is an overall negative trend in Total Phosphorus at McLeod1. The correlation coefficient is -0.33, so the trend line of the data explains 33% of the variance in the data.

Table 36. Total Nitrogen at Parker1 (FDOT major outfall: FDOT-546-30, FDOT-546-75 & FDOT-600-30)



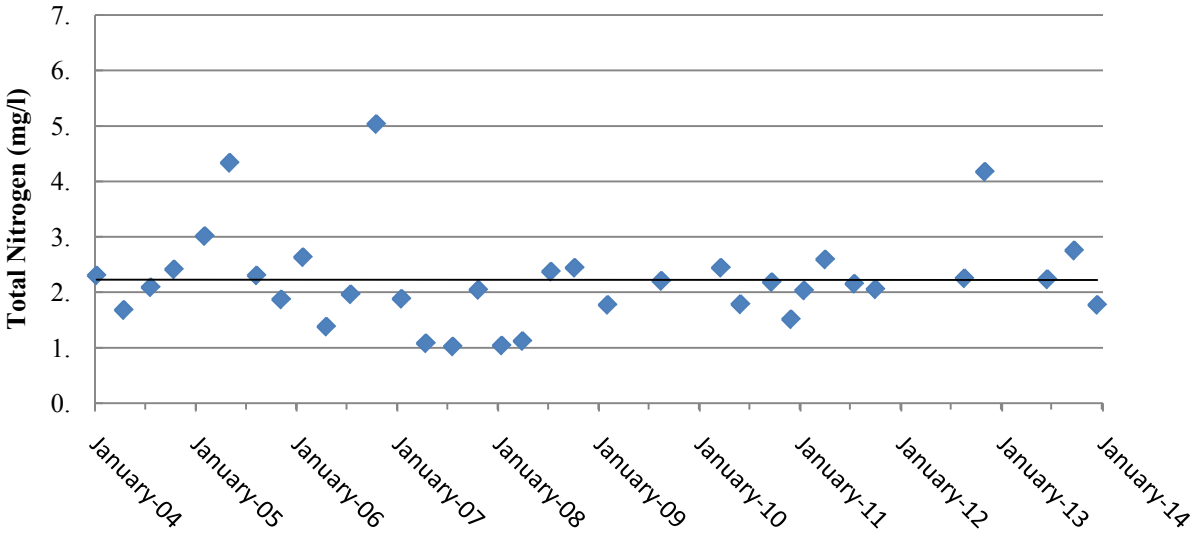

There is an overall positive trend in Total Nitrogen at Parker1. The correlation coefficient is 0.08, so the trend line of the data explains 8% of the variance in the data.

Table 37. Total Phosphorus at Parker1 (FDOT major outfall: FDOT-546-30, FDOT-546-75 & FDOT-600-30)



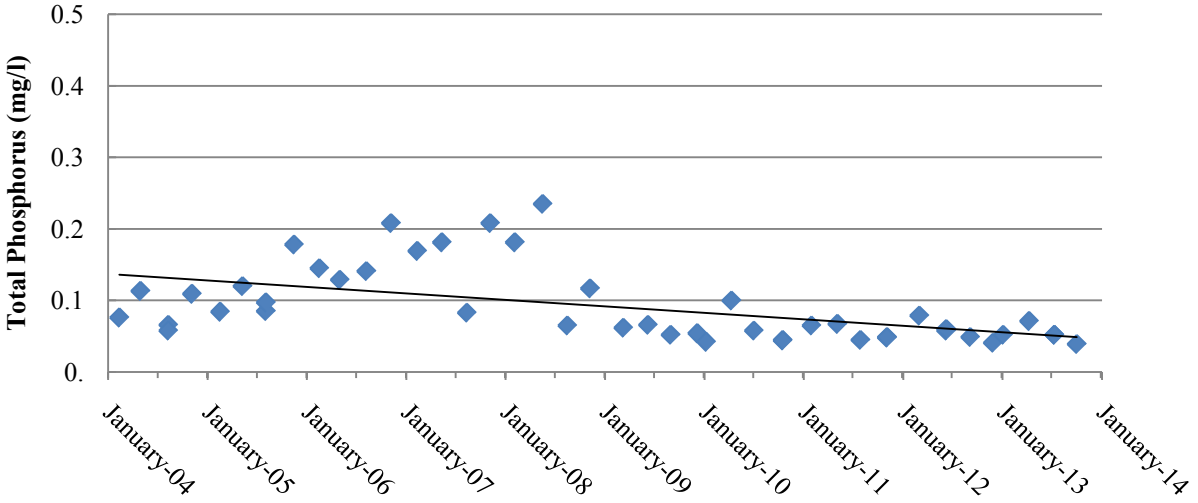

There is an overall negative trend in Total Phosphorus at Parker1. The correlation coefficient is -0.52, so the trend line of the data explains 52% of the variance in the data.

Table 38. Total Nitrogen at PeaceRvr10 (FDOT major outfall: FDOT-35-100)



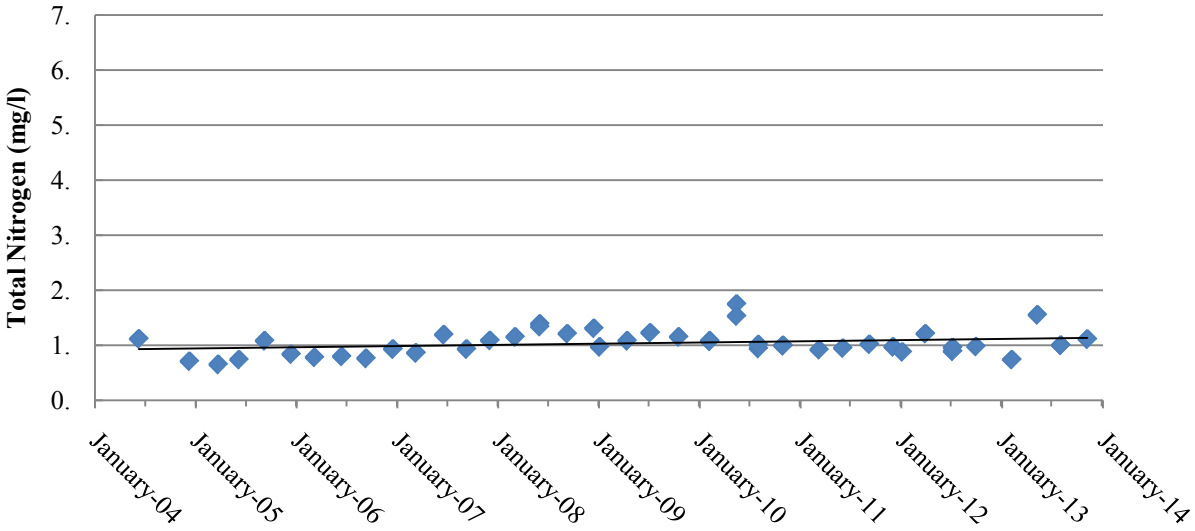

There is an overall positive trend in Total Nitrogen at PeaceRvr10. The correlation coefficient is 0.08, so the trend line of the data explains 8% of the variance in the data.

Table 39. Total Phosphorus at PeaceRvr10 (FDOT major outfall: FDOT-35-100)



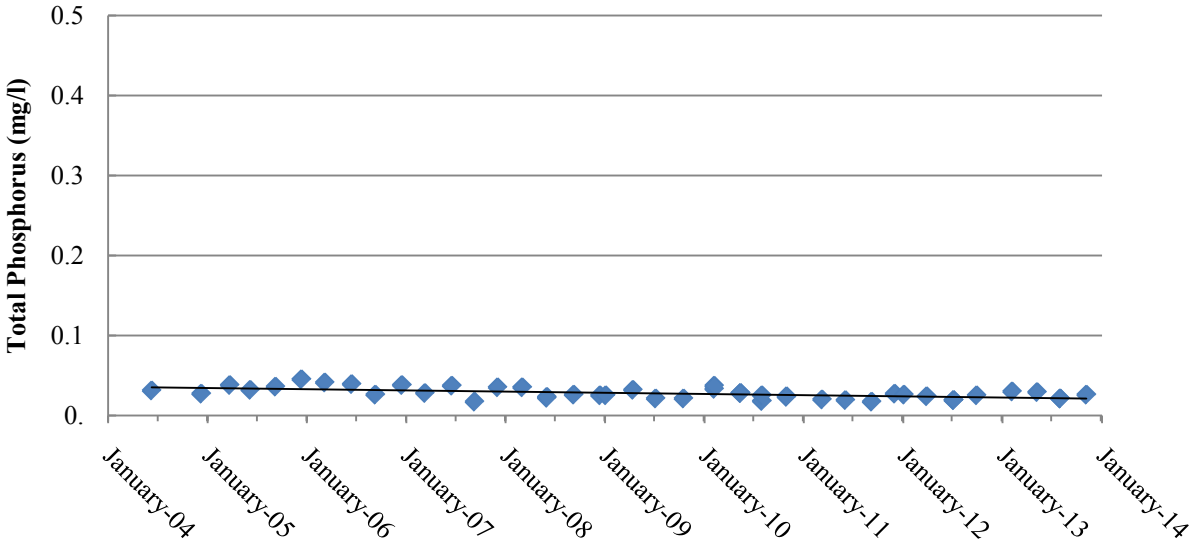

There is an overall negative trend in Total Phosphorus at PeaceRvr10. The correlation coefficient is -0.52, so the trend line of the data explains 52% of the variance in the data.

Table 40. Total Nitrogen at Roy1 (FDOT major outfall: OF16300-3511-03)



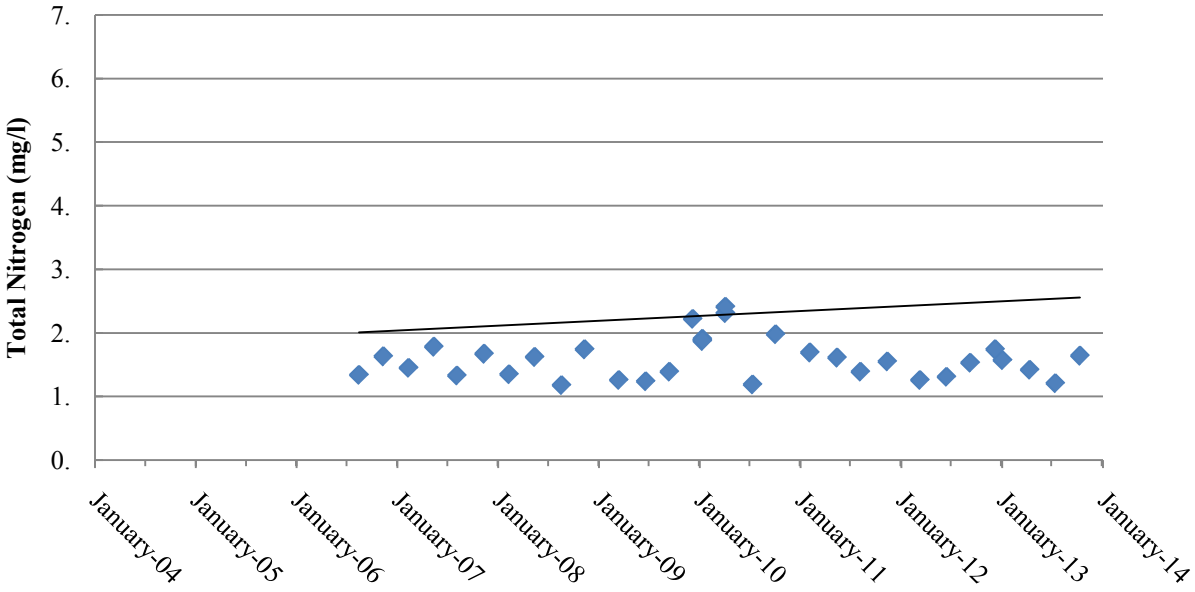

There is an overall positive trend in Total Nitrogen at Roy1. The correlation coefficient is 0.25, so the trend line of the data explains 25% of the variance in the data.

Table 41. Total Phosphorus at Roy1 (FDOT major outfall: OF16300-3511-03)



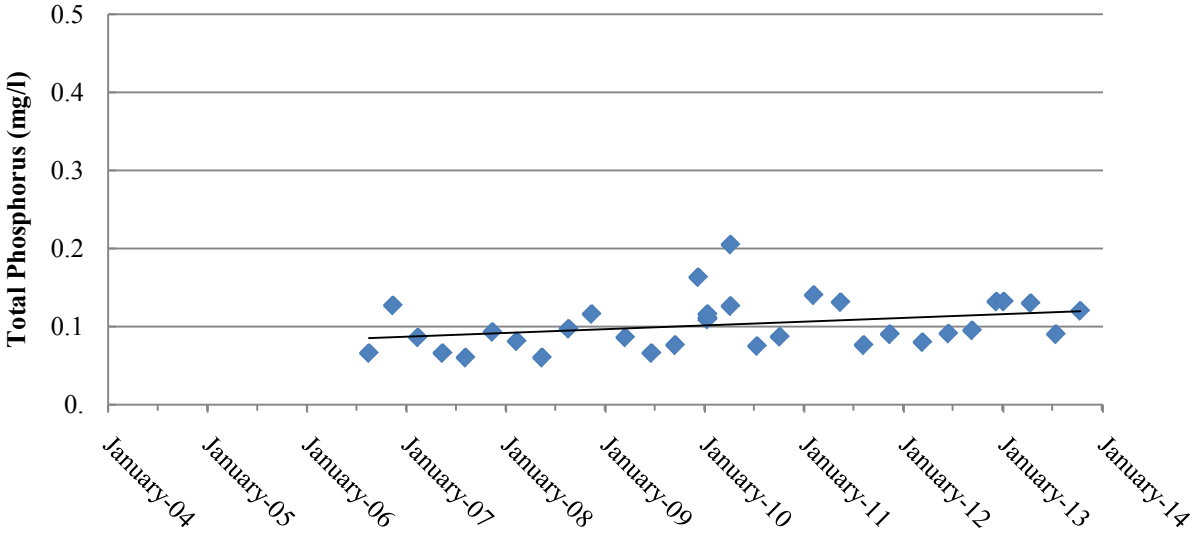

There is an overall negative trend in Total Phosphorus at Roy1. The correlation coefficient is -0.57, so the trend line of the data explains 57% of the variance in the data.

Table 42. Total Nitrogen at Saddle Crk Pk Y (FDOT major outfall: FDOT-659-15)



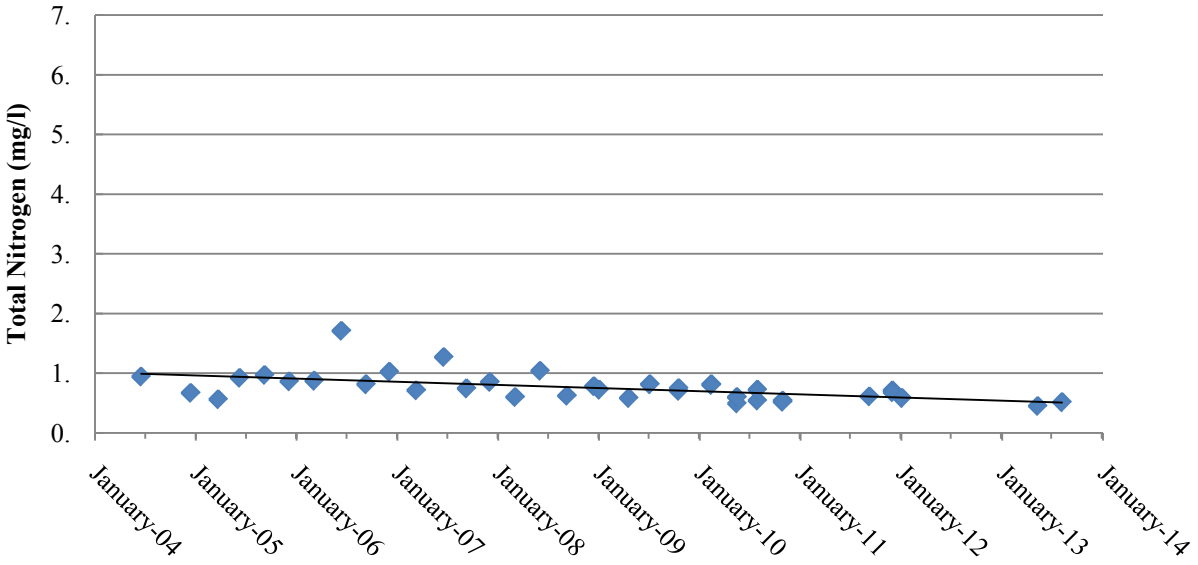

There is an overall positive trend in Total Nitrogen at Saddle Crk Pk Y. The correlation coefficient is 0.05, so the trend line of the data explains 5% of the variance in the data.

Table 43. Total Phosphorus at Saddle Crk Pk Y (FDOT major outfall: FDOT-659-15)



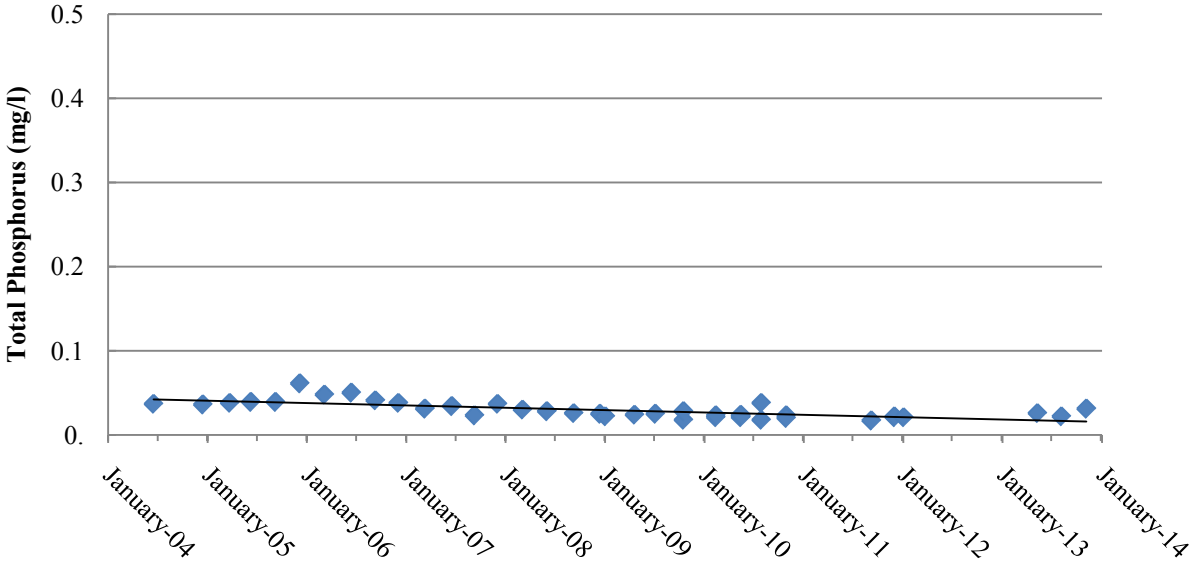

There is an overall positive trend in Total Phosphorus at Saddle Crk Pk Y. The correlation coefficient is 0.31, so the trend line of the data explains 31% of the variance in the data.

Table 44. Total Nitrogen at Spring1 (FDOT major outfall: FDOT-555-55)



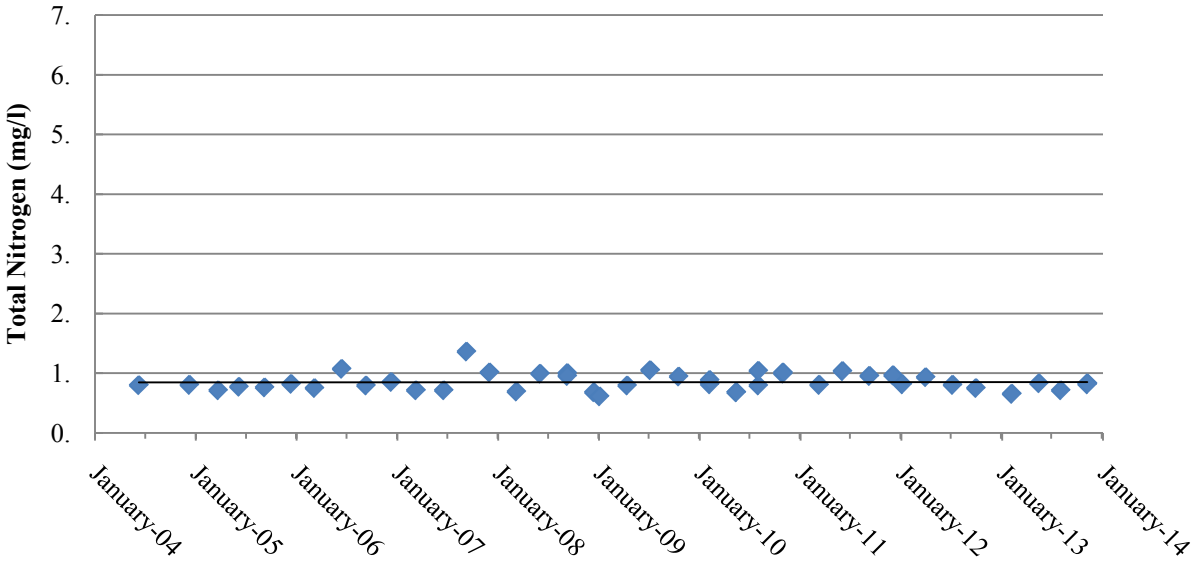

There is an overall negative trend in Total Nitrogen at Spring1. The correlation coefficient is -0.54, so the trend line of the data explains 54% of the variance in the data.

Table 45. Total Phosphorus at Spring1 (FDOT major outfall: FDOT-555-55)



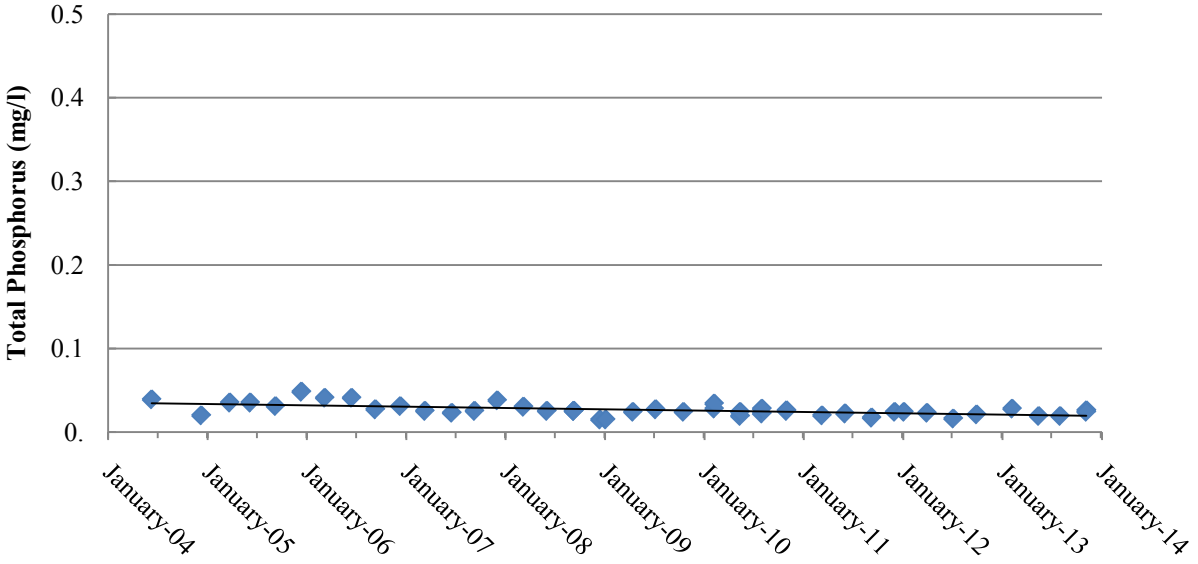

There is an overall negative trend in Total Phosphorus at Spring1. The correlation coefficient is -0.69, so the trend line of the data explains 69% of the variance in the data.

Table 46. Total Nitrogen at Summit1 (FDOT major outfall: FDOT-540-60)



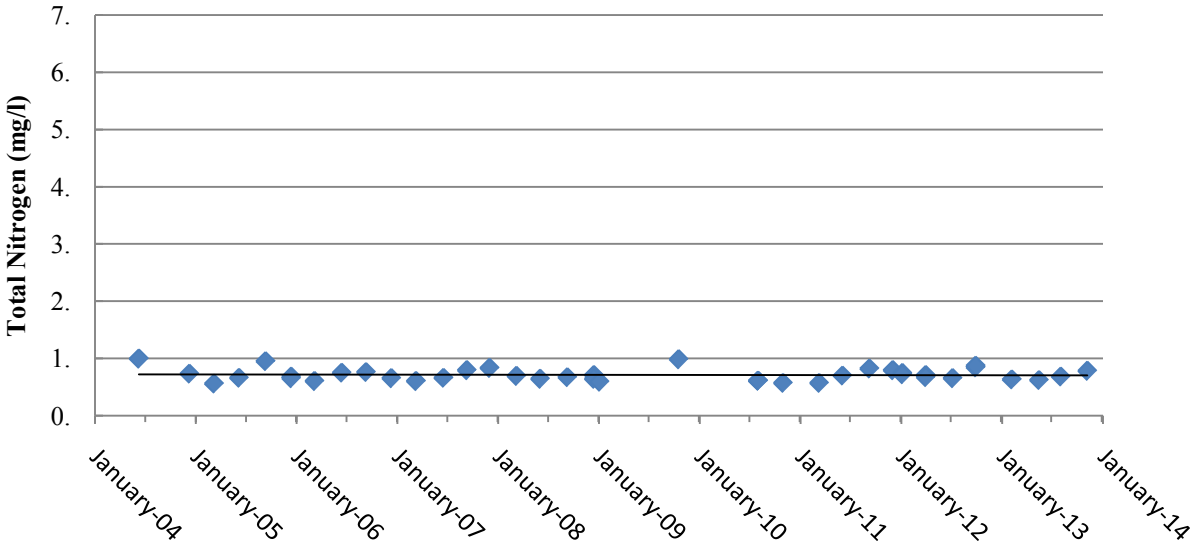

There is an overall positive trend in Total Nitrogen at Summit1. The correlation coefficient is 0.01, so the trend line of the data explains 1% of the variance in the data.

Table 47. Total Phosphorus at Summit1 (FDOT major outfall: FDOT-540-60)



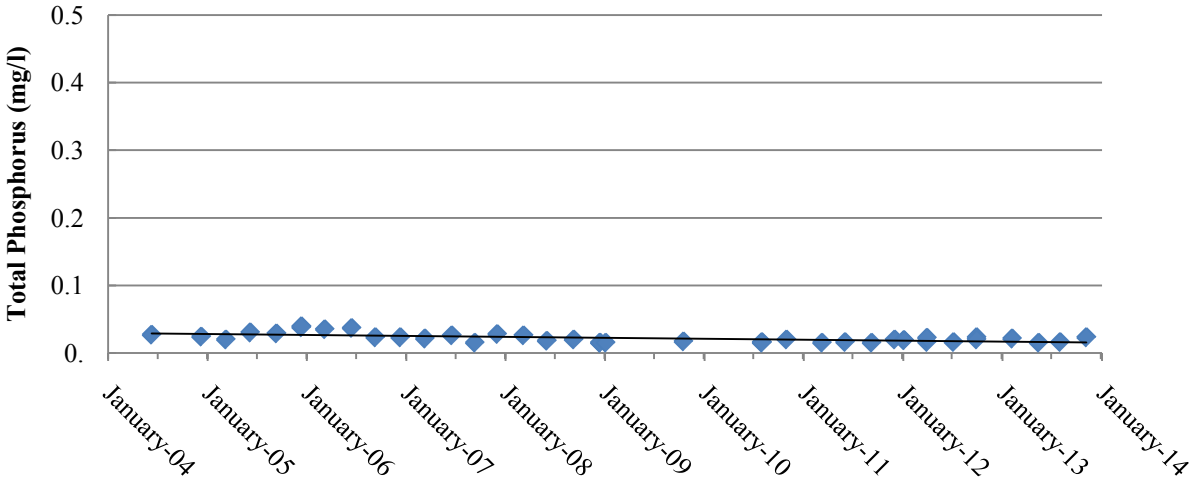

There is an overall negative trend in Total Phosphorus at Summit1. The correlation coefficient is -0.58, so the trend line of the data explains 58% of the variance in the data.

Table 48. Total Nitrogen at Winterset1 (FDOT major outfall: FDOT-540-70)



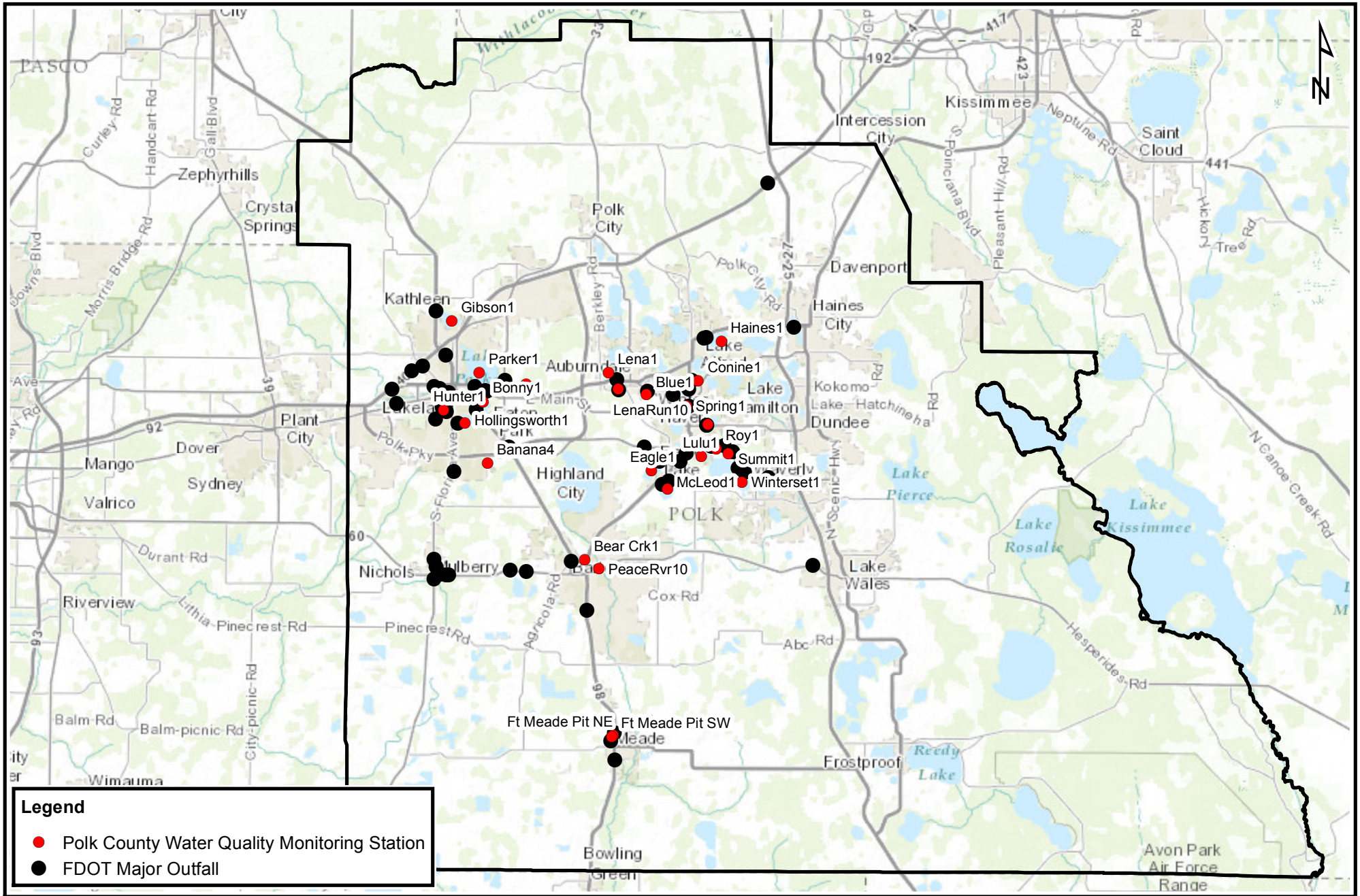

There is an overall negative trend in Total Nitrogen at Winterset1. The correlation coefficient is -0.05, so the trend line of the data explains 5% of the variance in the data.

Table 49. Total Phosphorus at Winterset1 (FDOT major outfall: FDOT-540-70)




There is an overall negative trend in Total Phosphorus at Winterset1. The correlation coefficient is -0.60, so the trend line of the data explains 60% of the variance in the data.

P:\Projects\1-1400-1499\1-1464-033\3_data and research\GIS\POLK_Water_quality_ambient_monitoring.mxd




**Legend**

- Polk County Water Quality Monitoring Station
- FDOT Major Outfall

FDOT

# FDOT Water Quality Monitoring

Polk County

Location Map

FIGURE 1

| DRAWN BY: | CHECKED BY: | PROJECT NUMBER: | SCALE: | DATE: |
|---|---|---|---|---|
| JM | DR | 1-1464-33 | 1 " = 40,000 ' | 3/27/2014 |