

IN THE UNITED STATES DISTRICT COURT
FOR THE SOUTHERN DISTRICT OF INDIANA
EVANSVILLE DIVISION

UNITED STATES OF AMERICA

and

THE STATE OF INDIANA,

Plaintiffs,

3:09CV128 WTL-WGH

v.

THE CITY OF EVANSVILLE, INDIANA,

and

EVANSVILLE WATER AND SEWER
UTILITY BOARD,

Defendants.

THIRD AMENDMENT TO CONSENT DECREE

WHEREAS, on June 22, 2011, the United States District Court for the Southern District of Indiana approved and entered a Consent Decree between the United States and the State of Indiana (collectively "Plaintiffs") and the City of Evansville, Indiana and the Evansville Water and Sewer Utility Board (collectively "Evansville" or "Defendants") in a case captioned *United States, et al. v. City of Evansville, et al.*, Civil Action No. 3:09-CV-128 (S.D. Ind.);

WHEREAS, the objectives of the Consent Decree are for Defendants to take steps necessary to comply with the Clean Water Act, Indiana Code § 13-30-2-1, the regulations promulgated under those laws, and the National Pollutant Discharge Elimination System Permits issued pursuant to the Clean Water Act for Defendants' two waste water treatment plants;

WHEREAS, the Consent Decree requires Defendants to develop and implement an Integrated Overflow Control Plan (“IOCP”), subject to Plaintiffs’ approval, that sets forth measures that would significantly reduce untreated combined sewer overflows and sanitary sewer discharges from Defendants’ sewer system to the Ohio River, Pigeon Creek, and Bee Slough;

WHEREAS, on April 23, 2012, and November 30, 2012, Plaintiffs and Defendants entered into two agreed, non-material modifications to the Consent Decree (Docs. 180, 233, respectively), extending the time for Defendants to submit a complete IOCP that meets the requirements of the Consent Decree and to request to extend the schedule for full implementation of the IOCP;

WHEREAS, on May 31, 2013, Defendants submitted a proposed IOCP for Plaintiffs’ review and approval, and requested an extension to the implementation schedule pursuant to Paragraphs 42 and 43 of the Consent Decree;

WHEREAS, Plaintiffs disapproved Defendants’ proposed IOCP as inconsistent with the requirements of the Consent Decree and the technology-based and water quality-based requirements of the Clean Water Act and Indiana law, and directed Defendants to correct certain deficiencies in the submittal;

WHEREAS, following Plaintiffs’ disapproval of Defendants’ IOCP submittal, the parties engaged in a period of informal dispute resolution from approximately December 2014 through October 2015;

WHEREAS, this Third Amendment to the Consent Decree represents the parties’ agreed resolution of the parties’ dispute concerning the appropriate level of Combined Sewer Overflow (“CSO”) control, the appropriate Remedial Measures for inclusion in the IOCP, the design

criteria for each such Remedial Measure, the performance criteria that would apply to each Remedial Measure, and the schedule for implementing each Remedial Measure and other improvements identified in the IOCP;

WHEREAS, the Parties stipulate and agree that this Third Amendment to the Consent Decree represents a change that is a material modification to the Decree, and thus requires Court approval pursuant to Paragraph 124 of the Decree; and

WHEREAS, each undersigned representative of the Plaintiffs and the Defendants certifies that he or she is fully authorized to enter into the terms and conditions of this Third Amendment and to execute and legally bind the Party he or she represents to this document.

NOW, THEREFORE, IT IS HEREBY AGREED BY THE PARTIES as follows:

1. The Consent Decree, as modified, shall remain in full force and effect in accordance with its terms, except that the following paragraphs listed below shall be amended, restated, added, or removed as follows:
 2. The term “Remedial Measure” shall mean those improvements identified in Appendix G to this Third Amendment to the Consent Decree and shall include the design criteria and the performance criteria identified in Appendix G for each such measure.
 3. The term “Non-IOCP Capital Investment” shall mean those capital investments identified in Appendix I, attached to and incorporated by reference in this Third Amendment to the Consent Decree.
 4. By no later than January 15, 2016, Defendants shall develop and submit to the Plaintiffs an IOCP in accordance with the requirements of Appendix C to the Consent Decree and in accordance with Appendix G and Appendix H attached to and incorporated by reference

in this Third Amendment to the Consent Decree. Plaintiffs shall review the IOCP pursuant to Section XV of this Consent Decree (Review and Approval Procedures).

5. The following sentence in Paragraph 8(d) of the Consent Decree shall be deleted in its entirety: “A list of Defendants’ CSO Outfalls is provided as Appendix A to this Consent Decree.”

6. Paragraph 35 shall be deleted in its entirety and replaced with the following paragraph:

“35. In scheduling improvements, the IOCP shall give priority to those Improvements and other remedial measures necessary to prevent or minimize Discharges and CSS Releases to sensitive areas identified in Appendix E. In addition, the IOCP shall include an analysis of the impact of the IOCP on environmental justice populations, including the schedule for implementation, in accordance with EPA's Environmental Justice Strategy (April 1995), and Presidential Executive Order 12898. The IOCP schedule shall require that the design and construction of all Improvements and other remedial measures described in the IOCP shall be implemented as expeditiously as practicable and by no later than May 31, 2040.”

7. Paragraph 39 shall be deleted in its entirety and replaced with the following paragraph:

“39. Following the approval, the Defendants shall fully implement the IOCP in accordance with the approved schedule identified in Appendix G to the Third Amendment to the Consent Decree, which shall not extend beyond May 31, 2040.”

8. Paragraph 41 shall be deleted in its entirety and replaced with the following paragraph:

“41. Defendants shall commence construction and achieve full operation of all Remedial Measures identified in Appendix G, attached hereto and incorporated by reference in this

Consent Decree, in accordance with the design criteria, the performance criteria, and implementation schedule identified in Appendix G by no later than May 31, 2040. Beginning no later than the date identified in Appendix G upon which Defendants are required to achieve full operation of a Remedial Measure, Defendants shall operate each Remedial Measure in accordance with the performance criteria identified in Appendix G.”

9. In addition to the Remedial Measures and other improvements identified in Appendix G to this Third Amendment to the Consent Decree, Defendants shall, in accordance with the schedule stated in this paragraph 9, perform the Non-IOCP Capital Investments identified in Appendix I, attached to and incorporated by reference in this Third Amendment to the Consent Decree, as stated below:

a. From the Date of Lodging of this Third Amendment until December 31, 2020, Defendant shall commence construction of each specific Non-IOCP Capital Investment identified in Appendix I (investment numbers S80001 through S80104) for that time period. Any Non-IOCP Capital Investment for which Defendant has not achieved full operation during that time period shall achieve full operation in the subsequent five year period referenced in Paragraph 9.b. below. Defendants’ cumulative actual total cost (column BI) for the Non-IOCP Capital Investments made from the Date of Lodging through December 31, 2020 shall be at least \$65,689,000 in 2015 dollars;

b. From January 1, 2021 through December 31, 2025, Defendant shall commence construction of each specific Non-IOCP Capital Investment identified in Appendix I (investment numbers S80105 through S80190) for that time period. Any Non-IOCP Capital Investment for which Defendant has not achieved full operation during that time period shall achieve full operation in the subsequent five year period referenced in Paragraph 9.c. below. Defendants’

cumulative actual total cost (column BI) for the Non-IOCP Capital Investments made from the Date of Lodging through December 31, 2025 shall be at least \$76,597,000 in 2015 dollars;

c. From January 1, 2026 through December 31, 2030, Defendants shall commence construction of each specific Non-IOCP Capital Investment identified in Appendix I (investment numbers S80191 through S80289) for that time period. Any Non-IOCP Capital Investment for which Defendant has not achieved full operation during that time period shall achieve full operation in the subsequent five year period referenced in Paragraph 9.d. below. For any Defendants' cumulative actual total cost (column BI) for the Non-IOCP Capital Investments made from the Date of Lodging through December 31, 2030 shall be at least \$89,737,900 in 2015 dollars;

d. From January 1, 2031 through December 31, 2035, Defendant shall commence construction of each specific Non-IOCP Capital Investment identified in Appendix I (investment S80290 through S80434) for that time period. Any Non-IOCP Capital Investment for which Defendant has not achieved full operation during that time period shall achieve full operation by no later than May 31, 2040. Defendants' cumulative actual total cost (column BI) for the Non-IOCP Capital Investments made from the Date of Lodging through December 31, 2035 shall be at least \$114,949,500 in 2015 dollars; and

e. No later than May 31, 2040, Defendant shall have achieved full operation of all Non-IOCP Capital Investments identified in Appendix I (investment numbers S80001 through S80554). Defendants' cumulative actual total cost (column BI) for the Non-IOCP Capital Investments made from the Date of Lodging through May 31, 2040 shall be at least \$140,348,000 in 2015 dollars.

10. Subject to the reporting requirements specified in Paragraph 12 below, Defendants may substitute one or more Non-IOCP Capital Investments designated “Reserve” in Appendix I (investment numbers S80555 through S80997) for a Non-IOCP Capital Investment identified in Appendix I for the specific time period in which those investments are to occur, provided that the actual total cost (column BI), in 2015 dollars, for the Non-IOCP Capital Investments and substitute Non-IOCP Capital Investments is at least the cumulative total cost for the specific time period, identified in Paragraph 9 and in Appendix I, and that the substituted Non-IOCP Capital Investment achieves full operation within the relevant time period specified in Subparagraphs 8.a. through 8.e.

11. Notwithstanding the requirements of paragraphs 9 and 10 above, Defendants shall not be obligated under this Consent Decree to implement Non-IOCP Capital Investments identified in Appendix I for the specific time period in Paragraph 9 after the total dollar investment identified for that time period in Appendix I is achieved.

12. In addition to the requirements of Section XIII of the Consent Decree (Consent Decree Reporting Requirements), with each semi-annual report:

a. Defendants shall identify each Non-IOCP Capital Investment completed during the reporting period, including the service area (Column B, Appendix I), Project Type (Column E, Appendix I), a description of the project (Column H, Appendix I), the planning level capital cost (Column AY, Appendix I), the date of commencement of construction (Column BV, Appendix I), the date of achievement of full operation (Column BW, Appendix I), and the actual cost of the project (Column BI, Appendix I);

b. Defendants shall identify whether, during the next reporting period, Defendants will substitute any Non-IOCP Capital Investments designated as “Reserve” in Appendix I for

one or more Non-IOCP Capital Investments specified for the relevant time period in Paragraph 9, and if so, which “Reserve” Non-IOCP Capital Investments will be substituted; and

c. Defendants shall identify whether, for the next reporting period, Defendants request to substitute any capital investments not identified in Appendix I for one or more Non-IOCP Capital Investments identified in Appendix I, provided: (i) that the total dollar investment identified for the relevant time period in Paragraph 9 is maintained; (ii) that Defendants have commenced construction of the capital investment within the specified time period in Subparagraphs 9.a. through 9.e; and (iii) that the capital investment is not already included in the IOCP approved by Plaintiffs pursuant to Section XV of this Consent Decree (Review and Approval Procedures). For each such proposed capital investment identified in Defendants’ submittal under this Paragraph 12.c. of this Third Amendment, Defendants shall identify the service area (Column B on Appendix I), Project Type (Column E on Appendix I), a description of the project (Column H on Appendix I), and the planning level capital cost (Column AY on Appendix I). Plaintiffs shall review Defendants’ submittal under this Paragraph 12.c. pursuant to Section XV of the Consent Decree (Review and Approval Procedures). Only in accordance with Plaintiffs’ approval or conditional approval of Defendants’ submittal, Defendants may substitute one or more such additional capital investments for a Non-IOCP Capital Investment identified on Appendix I.

13. The heading at Subsection VII.E of the Consent Decree, titled “IOCP Schedule Reconsideration Based on Financial Circumstances” shall be deleted in its entirety, but subsection letter “E.” shall be retained in its entirety as follows:

“E. [deleted]”

14. Paragraph 42 shall be deleted in its entirety but its paragraph number shall be retained as follows:

“42. [deleted]”

15. Paragraph 43 shall be deleted in its entirety but its paragraph number shall be retained as follows:

“43. [deleted]”

16. Paragraph 44 shall be deleted in its entirety but its paragraph number shall be retained as follows:

“44. [deleted]”

17. Paragraph 45 shall be deleted in its entirety but its paragraph number shall be retained as follows:

“45. [deleted]”

18. Paragraph 46 shall be deleted in its entirety but its paragraph number shall be retained as follows:

“46. [deleted]”

19. Paragraph 47 shall be deleted in its entirety but its paragraph number shall be retained as follows:

“47. [deleted]”

20. Paragraph 48 shall be deleted in its entirety but its paragraph number shall be retained as follows:

“48. [deleted]”

21. Paragraph 82 shall be deleted in its entirety and replaced with the following paragraph:

“82. ‘Force majeure,’ for purposes of this Consent Decree, is defined as any event arising from causes beyond the control of Defendants, their agents, consultants and contractors, or any entity controlled by Defendants that delays or prevents the performance of any obligation under this Consent Decree despite Defendants’ best efforts to fulfill the obligation. The requirement that Defendants exercise “best efforts to fulfill the obligation” includes using best efforts to anticipate any potential Force Majeure event and best efforts to address the effects of any such event (a) as it is occurring and (b) after it has occurred to prevent or minimize any resulting delay to the greatest extent possible. Where any compliance obligation under this Section requires Defendants to obtain a federal, state, or local permit or approval, Defendants shall submit timely and complete applications and take all other actions necessary to obtain all such permits or approvals. Defendants may seek relief under the provisions of this Section XI (Force Majeure) for any delay in the performance of any such obligation resulting from a failure to obtain, or a delay in obtaining, any permit or approval required to fulfill such obligation, if Defendants have submitted timely and complete applications and have taken all other actions necessary to obtain all such permits or approvals. However, failure to apply for a required permit or approval or to provide in a timely manner all information required to obtain a permit or approval that is necessary to meet the requirements of this Consent Decree, or failure of Defendants to approve contracts, shall not, in any event, be considered “Force Majeure” events. In addition, “Force Majeure” does not include Defendants’ financial inability to perform any obligation under this Consent Decree.

22. Paragraph 90 shall be deleted in its entirety and replaced with the following paragraph:

“90. Standard of Review. In any dispute brought under this Section XII (Dispute Resolution), Defendants shall have the burden of proof, and the standard and scope of review shall be that provided by applicable law.”

23. Paragraph 132 shall be deleted in its entirety and replaced with the following paragraph:

“132. This Consent Decree, as amended, including its Appendices, the approved Remedial Measures, design criteria, performance criteria and implementation schedule identified in Appendix G attached hereto, the approved Post Construction Monitoring Program and the requirements of Appendix H, the schedule for implementing Non-IOCP Capital Investments in Appendix I, the approved SSRMP, and all other approved deliverables under this Consent Decree constitute the final, complete, and exclusive agreement and understanding among the Parties with respect to the settlement embodied in the Consent Decree, as amended, and supersede all prior agreements and understandings, whether oral or written. Other than the Appendices, including but not limited to Appendix G, Appendix H, and Appendix I attached to the Third Amendment, the approved LTCP, the approved SSRMP, and all other deliverables required under this Consent Decree, which are incorporated in this Decree, no other document, nor any representation, inducement, agreement, understanding, or promise, constitutes any part of this Consent Decree or the settlement it represents, nor shall it be used in construing the terms of this Consent Decree, as amended.”

24. Paragraph 133 shall be amended to list and incorporate by reference into this Consent Decree the following Appendices, attached hereto:

“Appendix G” Approved IOCP Remedial Measures, Design Criteria, Performance Criteria, and Implementation Schedule

“Appendix H” Monitoring and Reporting Requirements for Remote Treatment Controls Identified in Appendix G

“Appendix I” Non-IOCP Capital Investments

Further, Paragraph 133 shall be amended to delete “Appendix A” (List of CSO Outfalls) as follows:

“Appendix A” List of CSO Outfalls ***DELETED***

The entire text of Appendix A to the Consent Decree shall hereafter appear as follows:

“CONSENT DECREE APPENDIX A: *DELETED*”

25. Item 27 of Appendix B to the Consent Decree shall be amended as follows:

Delete: “Complete Full Implementation of the IOCP” with a due date of May 31, 2032.

Insert: “Complete Full Implementation of the IOCP in Accordance with Appendix G”

with a due date of May 31, 2040.

26. Item 28 of Appendix B to the Consent Decree shall be amended as follows:

Delete: “Complete Post Construction Monitoring” with a due date of May 31, 2033.

Insert: “Complete Post Construction Monitoring” with a due date of May 31, 2041.

27. Item 29 of Appendix B to the Consent Decree shall be amended as follows:

Delete: “Submit Post Construction Monitoring Report” with a due date of May 31, 2034.

Insert: “Submit Post Construction Monitoring Report” with a due date of May 31, 2042.

28. The last sentence of Appendix B to the Consent Decree, which begins with an asterisk and states “*Subject to extension approved by Plaintiffs pursuant to Section VII.E of this Consent Decree (IOCP Schedule Reconsideration Based on Financial Circumstances) and Section XV of this Consent Decree (Review and Approval Procedures)”, shall be deleted in its entirety.

29. This Third Amendment to the Consent Decree shall be lodged for a period of not less than thirty (30) Days for public notice and comment in accordance with 28 C.F.R. § 50.7. The United States and the State each reserve the right to withdraw or withhold its consent if the comments regarding this Third Amendment to the Consent Decree disclose facts or considerations indicating that the Third Amendment is inappropriate, improper, or inadequate. Defendants consent to entry of this Third Amendment to the Consent Decree without further notice and agree not to withdraw from or oppose entry of this Third Amendment by the Court or to challenge any provision of the Amendment, unless the United States or State has notified Defendants in writing that it no longer supports entry of the Amendment.

30. Each undersigned representative of Defendants, the Assistant Attorney General for the Environment and Natural Resources Division of the Department of Justice, and the State of Indiana certify that he or she is fully authorized to enter into the terms and conditions of this Third Amendment to the Consent Decree and to execute and legally bind the Party he or she represents to this document.

SO ORDERED THIS _____ DAY OF _____, _____.

United States District Judge

THE UNDERSIGNED PARTY enters into this Third Amendment to the Consent Decree in this action captioned United States and the State of Indiana v. the City of Evansville, Indiana and Evansville Water and Sewer Utility Board, (S.D. Ind.)(3:09-cv-128- WTL-WGH):

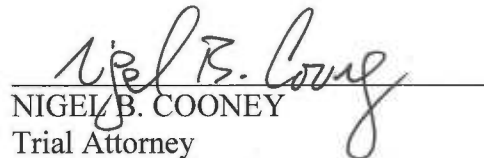
FOR THE UNITED STATES OF AMERICA

DATE: 2/12/16



JOHN C. CRUDEN
Assistant Attorney General
Environment & Natural Resources Division
U.S. Department of Justice
Washington, D.C. 20530

DATE: 2/16/16



NIGEL B. COONEY
Trial Attorney
Environmental Enforcement Section
Environment and Natural Resources Division
U.S. Department of Justice
P.O. Box 7611
Washington, D.C. 20044-7611
202-514-3145

THE UNDERSIGNED PARTY enters into this Third Amendment to the Consent Decree in this action captioned United States and the State of Indiana v. City of Evansville and Evansville Water and Sewer Utility Board, (S.D. Ind.)(3:09-cv-128-WTL-WGH):

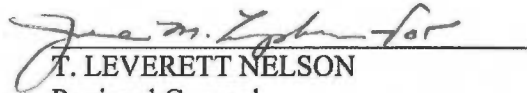
JOSEPH MINKLER
United States Attorney

Thomas Kieper
Assistant United States Attorney
Southern District of Indiana
10 West Market Street, Suite 2100
Indianapolis, IN 46204-3048

THE UNDERSIGNED PARTY enters into this Third Amendment to the Consent Decree in this action captioned United States and the State of Indiana v. City of Evansville, and Evansville Water and Sewer Utility Board, (S.D. Ind.)(3:09-cv-128-WTL-WGH):

FOR THE UNITED STATES OF ENVIRONMENTAL PROTECTION AGENCY:

DATE: 12.17.15



T. LEVERETT NELSON
Regional Counsel
U.S. Environmental Protection Agency, Region 5
77 West Jackson Boulevard
Chicago, IL 60604

DATE: 12.17.15

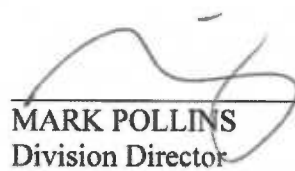


NICOLE CANTELLO
Associate Regional Counsel
U.S. Environmental Protection Agency, Region 5
77 West Jackson Boulevard
Chicago, IL 60604

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FOR THE UNITED STATES OF ENVIRONMENTAL PROTECTION AGENCY:

DATE: 12.6.15



MARK POLLINS
Division Director
Water Enforcement Division
Office of Civil Enforcement
Office of Enforcement and Compliance Assurance
United States Environmental Protection Agency

DATE: 12/9/15



JOANNA CITRON DAY
Attorney Advisor
Water Enforcement Division
Office of Civil Enforcement
Office of Enforcement and Compliance Assurance
United States Environmental Protection Agency

THE UNDERSIGNED PARTY enters into this Third Amendment to the Consent Decree in this action captioned United States and the State of Indiana v. City of Evansville, and Evansville Water and Sewer Utility Board, (S.D. Ind.)(3:09-cv-128-WTL-WGH):

FOR THE STATE OF INDIANA

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

DATE: 12/17/2015


CAROL S. COMER

Commissioner
Indiana Department of Environmental Management
100 North Senate Street
P.O. Box 6015
Indianapolis, IN 46206
Commissioner

Approved as to form and legality:

DATE: 12/17/2015


BETH ADMIRE

Attorney
Indiana Department of Environmental Management
100 North Senate Street
P.O. Box 6015
Indianapolis, IN 46206

Indiana Attorney General

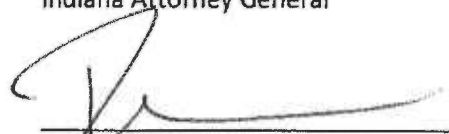
DATE: _____

PATRICIA ORLOFF ERDMANN
Chief Counsel for Litigation

Office of the Indiana Attorney General
402 West Washington Street
IGCS, 5th Floor
Indianapolis, IN 46204

DATE: 12/29/15

Indiana Attorney General



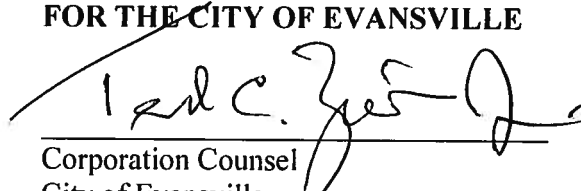
PATRICIA ORLOFF ERDMANN
Chief Counsel for Litigation

Office of the Indiana Attorney General
302 West Washington Street
IGCS, 5th Floor
Indianapolis, IN 46204

THE UNDERSIGNED PARTY enters into this Third Amendment to the Consent Decree in this action captioned United States and the State of Indiana v. City of Evansville, and Evansville Water and Sewer Utility Board, (S.D. Ind.)(3:09-cv-128-WTL-WGH):


FOR THE CITY OF EVANSVILLE

DATE: 12-16-15


Corporation Counsel
City of Evansville
420 Main Street, Suite 1600
Post Office Box 1065
Evansville, IN 47706

DATE: 12-16-15

FOR THE EVANSVILLE WATER AND SEWER UTILITY


President of the Board of Directors
Evansville Water & Sewer Utility
One N.W. Martin Luther King, Jr., #104
Evansville, IN 47740

Appendix G: Approved IOCP Remedial Measures, Design Criteria, Performance Criteria, and Implementation Schedule

Control Measure/Plan	Project	Outfall Number or Overflow	Name	Description	Narrative Description of Proposed Design and Performance Criteria		Implementation Schedule			
					Design Criteria	Performance Criteria	Bid Date	Commencement of Construction	Achievement of Full Operation	
Green Infrastructure	All	CSS Basins						1/1/2016	1/1/2017	12/31/2039
1	Bee Slough Restoration and CSO Treatment	001	Kentucky Ave	Wetlands treatment system	Constructed wetland treatment with a minimum storage volume of 42 million gallons. This volume is for the storage basin only, and excludes conveyance sewers and dewatering sewers. Conveyance pump station with minimum sustained design capacity of 198 million gallons per day. Relief sewer with a minimum diameter of 108 inches. The hydraulic loading rates for all projects shall not exceed any manufacture's recommendation.	0 CSOs and 0 gallons of residual overflow volume under Typical Year conditions. Treated discharges shall meet a 50% TSS reduction by mass standard, with a flow weighted basis and 12-Month Rolling Average reported each month. See Appendix H for monitoring and reporting requirements.	1/1/2021	1/1/2022	1/1/2025	
		002	Cass Ave	Vertical treatment unit (VTU)	Satellite vertical treatment unit that meets the performance criteria, including disinfection, with a minimum sustained design capacity of 226 million gallons per day. The hydraulic loading rate shall not exceed the manufacture's recommendation.	0 CSOs and 0 gallons of residual overflow volume under Typical Year conditions. Treated discharges shall meet a 50% TSS reduction by mass with a flow weighted basis and 12-Month Rolling Average reported each month. See Appendix H for monitoring and reporting requirements.	1/1/2030	1/1/2031	1/1/2033	
		004	Adams	Relief sewer to Cass Ave CSO control facility	Relief sewer to the Cass Avenue Vertical Treatment with a minimum diameter of 72 inches.	0 CSOs and 0 gallons of residual overflow volume under Typical Year conditions.	1/1/2030*	1/1/2031*	1/1/2033*	
		001, 002, 004	Bee Slough	Bee Slough Drainage Pipeline	Drainage pipelines between the concrete channel and the East WWTP Headworks Facility to provide the ability to send standing water in Bee Slough to the WWTP for treatment.	0 CSOs and 0 gallons of residual overflow volume under Typical Year conditions. Maximize flow to the East WWTP after wet weather events.				1/1/2018
		103	East WWTP	Effluent Pump Station	Conveyance pump station with minimum sustained design capacity of 68 million gallons per day.	Eliminate CSO overflow point. All East WWTP effluent pumped to the Ohio River and not to Bee Slough during high river levels.	1/1/2019	1/1/2020	1/1/2023	
		001, 002, 004	Bee Slough	Akin Park Partial sewer separation	Partial sewer separation projects in sewerage tributary to Bee Slough/East WWTP.	No SSOs pursuant to Consent Decree paragraph 12, subject to Consent Decree paragraph 69.				1/1/2020

Appendix G: Approved IOCP Remedial Measures, Design Criteria, Performance Criteria, and Implementation Schedule

Control Measure/Plan	Project	Outfall Number or Overflow	Name	Description	Narrative Description of Proposed Design and Performance Criteria		Implementation Schedule		
					Design Criteria	Performance Criteria	Bid Date	Commencement of Construction	Achievement of Full Operation
2	East WWTP Improvement Projects	103	East WWTP	Expand peak Treatment Capacity	Expand secondary treatment system to achieve a minimum sustained capacity of 40 million gallons per day through the entire East WWTP.	0 CSOs and 0 gallons of residual overflow volume under Typical Year conditions. No bypasses of any portion of East WWTP.	1/1/2019	1/1/2020	1/1/2023
3	West WWTP Improvement Projects	123	West WWTP	Expand peak primary treatment capacity; Storage Basin in Howell Park with overflow, Gravity in and out of Storage	Expand West WWTP headworks and primary treatment to achieve a minimum sustained capacity of 45 million gallons per day through the entire West WWTP.	0 CSOs and 0 gallons of residual overflow volume under Typical Year conditions.	1/1/2019	1/1/2020	1/1/2023
		123	Howell Park Storage	Construct storage basin at Howell Park	Storage basin with a minimum storage volume of 6.1 MG. This volume is for the storage basin only, and excludes conveyance sewers and dewatering sewers.	0 CSOs and 0 gallons of residual overflow volume under Typical Year conditions.	1/1/2019*	1/1/2020*	1/1/2023*
4	Pigeon Creek Interceptor Optimization and RTC Projects	012, 013, 014, 016, 017, 018, 024, 025	PCI	Complete cleaning and inspection of the PCI	Full Interceptor capacity available to convey dry and wet weather flow to the West WWTP	Convey total capacity of the interceptor to the WWTP and maximize wet weather storage capacity within the interceptor.	1/1/2017	1/1/2018	1/1/2022
5	7th Avenue, Franklin Street, Fulton Avenue, 9th Avenue, and St. Joseph Avenue CSO Control Projects	006	Fulton Avenue Pump Station	Send to 7th Ave East. Use existing pipe	Eliminate CSO overflow point	Eliminate CSO overflow point. All wastewater will be conveyed to new 7th Avenue Pump Station using existing pipe.			1/1/2036
		009	7th Avenue West	Eliminated	Eliminate CSO overflow point	Eliminate CSO overflow point. All wastewater will be conveyed to new 7th Avenue Pump Station using existing pipe.			1/1/2036
		015	7th Avenue East	Construct new 7th Ave Lift station for wet and dry weather flows.	Conveyance pump station with minimum sustained design capacity of 135 million gallons per day.	Ability to pump 45 MGD to the West WWTP and 90 MGD to onsite storage and high-rate treatment facility.		1/1/2026	1/1/2038*
				Above ground storage basin	Storage basin with a minimum storage volume of 5.1 million gallons. This volume is for the storage basin only, and excludes conveyance sewers and dewatering sewers	After construction of the high-rate treatment unit, no more than 4 CSOs, and a total of 7 MG of residual overflow volume under Typical Year conditions.		1/1/2028	1/1/2038*
				Satellite high rate treatment facility	Satellite high rate treatment unit that meets the performance criteria, including disinfection, with a minimum sustained design capacity of 72 million gallons per day. The hydraulic loading rate shall not exceed the manufacturer's recommendation.	Treated discharges must not exceed a TSS concentration of 40 mg/L averaged over the last seven discharge events. The compliance sampling done at the proposed high-rate treatment unit will be representative and reported as a 7-Discharge Rolling Average over the seven most recent discharge events. See Appendix H for monitoring and reporting requirements.	1/1/2035	1/1/2036	1/1/2038
		016	Franklin Street	Relief sewer to 7th Avenue CSO Control Facility	Relief sewer with a minimum diameter of 72 inches.	No more than 2 CSOs, and a total of 2 MG of residual overflow volume under Typical Year conditions.	1/1/2035	1/1/2036	1/1/2038*
		020	9th Avenue	Relief sewer to 7th Avenue CSO Control Facility	Relief sewer with a minimum diameter of 48 inches.	0 CSOs and 0 gallons of residual overflow volume under Typical Year conditions.	1/1/2035*	1/1/2036	1/1/2038*
		022	St. Joseph Avenue	Increase underflow pipe size and build weir	Raise CSO regulatory weir and increase underflow sewer diameter to 36 inches.	0 CSOs and 0 gallons of residual overflow volume under Typical Year conditions.	1/1/2026	1/1/2027	1/1/2028

Appendix G: Approved IOCP Remedial Measures, Design Criteria, Performance Criteria, and Implementation Schedule

Control Measure/Plan	Project	Outfall Number or Overflow	Name	Description	Narrative Description of Proposed Design and Performance Criteria		Implementation Schedule		
					Design Criteria	Performance Criteria	Bid Date	Commencement of Construction	Achievement of Full Operation
6	Diamond Avenue/Baker Street Sewer Separation and CSO Control Projects	024	Baker	Relief pump station to Diamond Avenue CSO Control Facility	Conveyance pump station with minimum sustained design capacity of 100 million gallons per day.	No more than 4 CSOs, and a total of 12 MG of residual overflow volume under Typical Year conditions.	1/1/2025	1/1/2026	7/1/2038
		025	Diamond Avenue	Storage basin with dewatering pump station.	Storage basin with a minimum storage volume of 8.1 million gallons. This volume is for the storage basin only, and excludes conveyance sewers and dewatering sewers. Dewatering pump station with minimum sustained design capacity of 4 million gallons per day.	After construction of the treatment unit, no more than 4 CSOs, and a total of 40 MG of residual overflow volume will occur under Typical Year conditions. Treated discharges must not exceed a TSS concentration of 40 mg/L averaged over the last seven discharge events. The compliance sampling done at the proposed high-rate treatment unit will be representative and reported as a 7-Discharge Rolling Average over the seven most recent discharge events. See Appendix H for monitoring and reporting requirements.	1/1/2028	1/1/2029	1/1/2032*
				Conveyance Pump Station	Pump station to conveyance wastewater to Diamond Avenue storage basin/treatment facility with minimum sustained design capacity of 150 million gallons per day.		1/1/2028*	1/1/2029	1/1/2032*
				Satellite high rate treatment facility	Satellite high rate treatment unit that meets the performance criteria, including disinfection, with a minimum sustained design capacity of 20 million gallons per day. The hydraulic loading rate shall not exceed the manufacture's recommendation.		1/1/2028*	1/1/2029	1/1/2032
				Diamond Avenue partial sewer separation	Partial sewer separation within the Diamond Avenue subbasin, as described in Evansville's 2007 Stormwater Master Plan and in Figure 9-5 of the July 31, 2015 IOCP.				1/1/2026
7	Oakley Street CSO Storage Facility	018	Oakley Street	Storage basin with gravity influent & effluent	Storage basin with a minimum storage volume of 0.6 million gallons. This volume is for the storage basin only, and excludes conveyance sewers and dewatering sewers	0 CSOs and 0 gallons of residual overflow volume under Typical Year conditions.	1/1/2034	1/1/2035	7/1/2036
8	Oak Hill Sewer Separation and CSO Control Projects		Oak Hill	Partial sewer separation	Partial sewer separation projects, including the State Hospital, Boeke Road Outfall, Weinbach and Keck projects, as identified within Evansville's 2007 Stormwater Master Plan.	No SSOs pursuant to Consent Decree paragraph 12, subject to Consent Decree paragraph 69.			1/1/2025
		011	Oak Hill	Storage basin with dewatering pump station	Storage basin with a minimum storage volume of 6.4 million gallons. This volume is for the storage basin only, and excludes conveyance sewers and dewatering sewers. dewatering pump station with minimum sustained design capacity of 4.6 million gallons per day.	No more than 3 CSOs, and a total of 5 MG of residual overflow volume under Typical Year conditions.	1/1/2035	1/1/2036	7/1/2037

Appendix G: Approved IOCP Remedial Measures, Design Criteria, Performance Criteria, and Implementation Schedule

Control Measure/Plan	Project	Outfall Number or Overflow	Name	Description	Narrative Description of Proposed Design and Performance Criteria		Implementation Schedule		
					Design Criteria	Performance Criteria	Bid Date	Commencement of Construction	Achievement of Full Operation
9	Downtown CSO (Oak/Riverside, Chestnut, and Dress Plaza) Control Projects	008	Chestnut	Relief sewer to Oak-Riverside Storage facility	Relief sewer with a minimum diameter of 84 inches.	No more than 2 CSOs, and a total of 1 MG of residual overflow volume under Typical Year conditions.	1/1/2037	1/1/2038	1/1/2039
		0	Oak and Riverside	Storage basin with dewatering pump station	Storage basin with a minimum storage volume of 7.5 million gallons. This volume is for the storage basin only, and excludes conveyance sewers and dewatering sewers. Dewatering pump station with minimum sustained design capacity of 3.8 million gallons per day. Relief sewer with a minimum diameter of 48 inches.	0 CSOs and 0 gallons of residual overflow volume under Typical Year conditions.	1/1/2037	1/1/2038	12/31/2039
		0	Dress Plaza	Storage basin with dewatering pump station	Storage basin with a minimum storage volume of 3.2 million gallons. This volume is for the storage basin only, and excludes conveyance sewers and dewatering sewers. Dewatering pump station with minimum sustained design capacity of 2.1 million gallons per day. Relief sewer with a minimum diameter of 60 inches.	No more than 3 CSOs, and a total of 7 MG of residual overflow volume under Typical Year conditions.	1/1/2035	1/1/2036	1/1/2037
10	6th Avenue, Dresden Street, Maryland Street, and Delaware Street CSO Control Projects	012	Maryland Street	Relocate diversion structure and sanitary connection to the upstream. Relief Sewer to Delaware CSO Control Facility.	Relief sewer with a minimum diameter of 72 inches.	No more than 2 CSOs, and a total of 1 MG of residual overflow volume under Typical Year conditions.	1/1/2036	1/1/2038	5/31/2040
		13	Delaware Street	Storage basin with dewatering pump station, conveyance pump station, and relief sewer.	Storage basin with a minimum storage volume of 3.5 million gallons. This volume is for the storage basin only, and excludes conveyance sewers and dewatering sewers. Dewatering pump station with minimum sustained design capacity of 1.8 million gallons per day. Conveyance pump station with minimum sustained design capacity of 70 million gallons per day. Relief sewer with minimum diameter of 84 inches.	No more than 2 CSOs, and a total of 3 MG of residual overflow volume under Typical Year conditions.	1/1/2036	1/1/2038	5/31/2040
		014	Dresden Street	Relief sewer to Delaware Street CSO Control Facility	Relief sewer with a minimum diameter of 60 inches.	No more than 2 CSOs, and a total of 1 MG of residual overflow volume under Typical Year conditions.	1/1/2036	1/1/2038	5/31/2040
		017	6th Avenue	Relief sewer to Delaware Street CSO Control Facility	Relief sewer with a minimum diameter of 24 inches.	No more than 1 CSOs, and 1 MG of residual overflow volume under Typical Year conditions.	1/1/2036	1/1/2038	5/31/2040
SSRMP	North Park Rehabilitation Projects		Mill Road SSOs	Sewer and manhole rehabilitation	Defendants shall spend \$4,555,000, in 2015 dollars.		1/1/2018	1/1/2019	1/1/2023
SSRMP	North Park Capacity Projects	SSO	Mill Road SSOs	Increase conveyance capacity by upsizing trunk sewers; raise manhole rim elevations; pump flow into CSS	Conveyance pump station with minimum sustained design capacity of 17.7 million gallons per day. Upsize a total length of 7,759 feet of sanitary sewer. Relief sewer diameter will be determined using 10-year level of SSO control. Seal manholes associated with upsized sewer lines. See Evansville's approved Sanitary Sewers Remedial Measures Plan for more specific project details.	0 SSOs, 10-year level of SSO control	1/1/2030	1/1/2031	5/31/2035
SSRMP	Lloyd Expressway Rehabilitation Projects	SSO	Lincoln Avenue SSOs	Sewer and manhole rehabilitation	Defendants will spend \$2,619,000, in 2015 dollars.		1/1/2021	1/1/2022	1/1/2025
SSRMP	Lloyd Expressway Capacity Projects	SSO	Lincoln Avenue SSOs	Increase conveyance capacity by upsizing trunk sewers; raise manhole rim elevations	Upsize a total length of 5,951 feet of sanitary sewer. Relief sewer diameter based on 10-year level of SSO control. Adjust 2 manhole inverts. See Evansville's approved Sanitary Sewers Remedial Measures Plan for more specific project details.	0 SSOs, 10-year level of SSO control	1/1/2024	1/1/2025	1/1/2027
SSRMP	NW/SW Rehabilitation Projects	SSO	Tekoppel Avenue SSOs	Sewer and manhole rehabilitation	Defendants shall spend \$3,876,000, in 2015 dollars.		1/1/2022	1/1/2023	1/1/2027
SSRMP	NW/SW Capacity Projects	SSO	Tekoppel Avenue SSOs	Increase conveyance capacity by upsizing trunk sewers; raise manhole rim elevations; pump flow into CSS	Conveyance pump station with minimum sustained design capacity of 14.5 million gallons per day. Size any relief sewer diameter based on 10-year level of SSO control. See Evansville's approved Sanitary Sewers Remedial Measures Plan for more specific project details.	0 SSOs, 10-year level of SSO control	1/1/2026	1/1/2027	1/1/2028
SSRMP	E-11 Rehabilitation Projects	SSO	Bergdilt Rd SSOs	Sewer and manhole rehabilitation	Defendants shall spend \$3,487,000, in 2015 dollars.		1/1/2022	1/1/2023	1/1/2026

Appendix G: Approved IOCP Remedial Measures, Design Criteria, Performance Criteria, and Implementation Schedule

Control Measure/Plan	Project	Outfall Number or Overflow	Name	Description	Narrative Description of Proposed Design and Performance Criteria		Implementation Schedule		
					Design Criteria	Performance Criteria	Bid Date	Commencement of Construction	Achievement of Full Operation
SSRMP	E-11 Capacity Projects	SSO	Bergdilt Rd SSOs	Increase conveyance capacity by upsizing trunk sewers; raise manhole rim elevations; pump flow into CSS	Conveyance pump station with minimum sustained design capacity of 14.5 million gallons per day. Upsize a total sewer length of 12,043 feet. Relief sewer diameter based on 10-year level of SSO control. Adjust 21 manhole inverts. See Evansville's approved Sanitary Sewers Remedial Measures Plan for more specific project details.	0 SSOs, 10-year level of SSO control	1/1/2027	1/1/2028	1/1/2030
SSRMP	SSS Rehabilitation Projects	SSO	SSS Basins	Sewer and manhole rehabilitation	Defendants shall spend \$3,671,000, in 2015 dollars.		1/1/2024	1/1/2025	1/1/2035

Notes:

- 1 With the exception of the SSRMP Projects noted above, this summary table does not include cost information. Capital Costs, Project O&M, and Life Cycle costs are presented with project details in the LTCP, SSRMP, and WWTP Facility Plan.
- 2 Performance criteria based on Evansville's typical precipitation year. Evansville should have no more than four CSO activations within the combined sewer collection system during the typical precipitation year.
- 3 Crossed out boxes in the Implementation Schedule indicated smaller projects whose full completion dates were earlier than the larger projects within the same control measure.
- 4 Dates with an asterix denote dates in the Implementation Schedule that were taken from a larger project in the same control measure, consistent with the 9/29/2015 discussion.
- 5 Effluent from the 7th Avenue Remote Treatment Unit, Diamond Avenue Remote Treatment Unit, the Constructed Wetland, and the VTU shall not exceed the following E. coli criteria from April 1 through October 31 of each year: (A) One hundred twenty-five (125) colony forming units per one hundred (100) milliliters as a geometric mean provided that five (5) grab samples or more are collected over a thirty (30) day period and (B) Two hundred thirty-five (235) colony forming units per one hundred (100) milliliters daily maximum. Daily maximum shall be the geometric mean of all samples on any discharge day provided that three (3) or more grab samples are collected. If less than 3 grab samples are taken then the arithmetic mean shall be reported instead. The goal of the effluent monitoring program is to collect at least 3 grab samples during each discharge event, and the samples shall be collected at shorter intervals at the onset of the event, if Evansville estimates that the event duration may be less than 6 hours.
- 6 Discharges from the wetland treatment system, VTU, 7th Avenue East satellite high rate treatment system, and Diamond Avenue high rate treatment system in compliance with the applicable Design and Performance Criteria in this Appendix G and applicable NPDES permit requirements shall not be considered a "CSO" prohibited by the Consent Decree, as amended, for purposes of determining compliance with the number of CSOs specified by the Performance Criteria applicable to each such system in this Appendix G.
- 7 Per Evansville's 2015 Combined Sewer Overflow Operation Plan (CSOOP) Update, CSOs 009 and 123 are not utilized. Evansville shall physically eliminate both of these CSOs by October 31, 2016 and reflect the elimination of these outfalls in its 2016 CSOOP Update.

CONSENT DECREE APPENDIX H: Monitoring and Reporting Requirements for Remote Treatment Controls Identified in Appendix G.

This Appendix H states the post-construction monitoring requirements for specific pollutants that apply to the proposed four remote treatment locations identified in Appendix G to this Consent Decree, specifically:

- Seventh Avenue Lift Station Remote Treatment Unit;
- Diamond Avenue Remote Treatment Unit;
- Vertical Treatment Unit (“VTU”) at the East Wastewater Treatment Plant (“WWTP”); and
- Constructed Wetland Treatment System (“Constructed Wetland”) at the East WWTP.

The post-construction monitoring requirements stated in this Appendix H are in addition to those requirements in Defendant’s IOCP Post-Construction Monitoring Plan to be prepared in accordance with Appendix C of this Consent Decree and subject to approval by Plaintiffs pursuant to Section XV of the Consent Decree (Review and Approval Procedures). The post-construction monitoring requirements in this Appendix H shall be incorporated by reference in Defendants’ IOCP Post-Construction Monitoring Plan. The IOCP Post-Construction Monitoring Plan, including the requirements of this Appendix H, shall be used to determine compliance with the Consent Decree and to determine whether a Supplemental Compliance Plan is required pursuant to Paragraph 49 of the Decree.

A. Definitions

- *7-Discharge Rolling Average* shall mean an event-based monthly calculation for samples from an individual treatment unit reported each month in Defendants’ Monthly Report, and shall be calculated by adding the TSS results from the most recent seven discharges and dividing by 7.
- *12-Month Event-Based Rolling Average* shall mean the volume weighted, event based monthly calculation for samples from an individual treatment unit that multiplies the TSS percent removal by the total effluent volume for each event in the most recent 12-month consecutive period and adds the events during the 12-month consecutive period together, before dividing by the total effluent volume from all of the events during the entire 12-month consecutive period.
- *composite sample* shall mean a sample prepared by physically combining two or more samples from the same sampling point, having some specific relationship and processed to ensure homogeneity.
- *continuous monitoring* shall mean the uninterrupted collection of data from a specific sampling point throughout the discharge event.

- *geometric mean* shall mean the antilogarithm of the mean of the logarithms of all the values in a set.
- *grab sample* shall mean a single sample which is collected at one point in time and place.
- *Monthly Report* shall mean the report required under Section E of this Appendix H.
- *precipitation event* shall mean an occurrence of rain, snow, sleet, hail, or other form of precipitation.
- *sample or sampling* shall mean the process of obtaining a representative portion of the material of concern.

B. Seventh Avenue and Diamond Avenue Monitoring Requirements

1. Sampling Requirements

Defendants shall conduct effluent sampling when the unit is discharging. Defendants shall sample each Remote Treatment Units' effluent discharge at representative locations and such locations shall be recorded in the Monthly Report required under Section E of this Appendix H. Defendants shall analyze samples for TSS, CBOD₅, pH, and E. coli. Defendants shall also sample for residual chlorine if Defendants choose to disinfect CSO effluent using chlorine. Defendants shall also sample for any additional parameters identified in the NPDES permit.

Defendants shall use an automatic sampler that collects samples at defined intervals or shall take grab samples. Defendants shall collect each sample, whether automatic or grab, that must be representative of the discharge. Defendants shall initiate sampling within 30 minutes from the beginning of the discharge event, and shall continue at intervals determined by Defendants but no less than every 2 hours during the event. Defendants shall take and analyze composite samples for TSS and CBOD₅. Defendants must sample for E. coli daily when discharging. If Defendants choose to disinfect using chlorine, Defendants shall perform and analyze a grab sample of residual chlorine each time a separate grab sample of E coli is performed. Defendants are not required to sample the wet weather treatment component influent for E. coli or residual chlorine. Defendants shall perform a representative pH grab sample for each wet weather treatment component discharge event. Defendants shall conform all sampling to the requirements in 40 CFR 136.

Defendants shall calculate the effluent TSS concentration 7-Discharge Rolling Average for each outfall at the Seventh Avenue Lift Station Remote Treatment Unit and the Diamond Avenue Remote Treatment Unit, and report the 7-Discharge Rolling Average in the Monthly Report to EPA/IDEM. The 7-Discharge Rolling Average calculation will be:

$$(x_1+x_2+x_3+x_4+x_5+x_6+x_7)/7$$

Where:

x = the representative effluent TSS concentration sampled during the most recent discharge

$_1$ = the first discharge event, $_2$ = the second discharge event, and so on.

If, for example, 10 remote treatment discharges occur in a single month, then 10 7-Discharge Rolling Averages would be included in the monthly report (*i.e.* the newest discharge result would be added, the oldest discharge result would be dropped off in the calculation and so on). If there is no discharge in a month from either of the Remote Treatment Units, Defendants shall report “No Discharge” on the Monthly Report for that month. In the next month in which a discharge occurs, the 7-Discharge Rolling Average shall be calculated using the representative effluent TSS concentrations from each of the 7 most recent discharge events regardless of whether the discharges occurred in contiguous months.

2. Monthly Report Requirements for the Remote Treatment Units

In addition to the requirements in Section E of this Appendix H, Defendants shall include in each Monthly Report results for TSS, CBOD₅, E. coli, pH, and, if applicable, residual chlorine for the Remote Treatment Units for each activation/discharge event. Defendants shall report TSS, CBOD₅, and residual chlorine as concentrations (mg/L). Defendant shall report E. coli as cfu/100 mL and pH as s.u. In addition, Defendants shall include in each Monthly Report:

- The corresponding precipitation information for each discharge event
- The results of each individual E. coli grab sample taken
- The monthly geometric mean for all of the E. coli samples taken in the previous month
- The time when each E. coli sample was taken and the estimated flow being discharged from the Remote Treatment Units
- Identify any dry weather discharges that occurred from the Remote Treatment Units within the previous month (include the start and end time of the dry weather discharge and the total volume discharged).
- Identify any discharge that does not meet the performance criteria for the Remote Treatment Units that occurred during the previous month.
- Identify the start and end time and the total volume discharged from outfall CSO 005 for each day when the CSO discharged in the previous month. Identify the flow in MGD discharged from the 7th Avenue Lift Station Remote Treatment Unit for each calendar day the CSO discharged.
- Identify the start and end time and the total volume discharged from outfall CSO 025 for each day when the CSO discharged in the previous month. Identify the flow in MGD discharged from the Diamond Avenue Remote Treatment Unit for each calendar day the CSO discharged.

3. Continuous Operation of the Remote Treatment Units/ Prohibition Against Dry Weather Discharges

No CSOs shall occur at Seventh Avenue East (CSO 005) when the Seventh Avenue Remote Treatment Unit is operating at or below its design maximum flow of 72 million gallons per day. No CSOs shall occur at Diamond Avenue (CSO 025) when the Diamond Avenue Remote Treatment Unit is operating at or below its design maximum flow of 20 million gallons per day. The bypass provisions of 40 CFR 122.41(m) shall apply to each bypass at the Remote Treatment Units. Each Remote Treatment Unit is prohibited from discharging during dry weather conditions.

The sampling for the Remote Treatment Units must begin upon the Remote Treatment Units upon the Achievement of Full Operation date identified in Appendix G.

Defendants shall perform all sampling for the Remote Treatment Units at a point representative of the Remote Treatment Units' effluent, before admixture with any other flow. Defendants shall monitor the other flow, including but not limited to a CSO, before combining with effluent from the Remote Treatment Units. Defendants shall report this measured other flow within the Monthly Report, including the start and end time and the total volume discharged, when either of the Remote Treatment Units are discharging.

C. Constructed Wetland Monitoring and Water Quality Sampling Procedure

1. Sampling Requirements

Defendants shall conduct influent and effluent sampling when the Constructed Wetland is filling or discharging. Defendants shall measure inflow and outflow from the Constructed Wetland at a representative location and recorded in 15 minutes intervals to determine rates of filling/emptying of the Constructed Wetland during and after events. Defendants shall average the inflow and outflow information on hourly basis to correspond with samples being taken. In addition, Defendants shall log Constructed Wetland water levels using an ultrasonic transducer or similar method, at a representative location, to track and record the depth of the Constructed Wetland and duration of storm events before, during, and after storm events.

Defendants shall sample Constructed Wetland influent and effluent at representative Constructed Wetland inflow and outflow locations. Defendants shall analyze samples for TSS, CBOD5, residual chlorine, pH, and E. coli. All sampling conducted must be representative of the Constructed Wetland's influent and effluent.

Defendants shall use an automatic sampler that collects samples at defined intervals or shall take grab samples. Defendants shall collect each sample, whether automatic or grab, during representative inflow into or representative discharges from the Constructed Wetland. Defendants shall initiate influent sampling within 30 minutes from the beginning of filling of the Constructed Wetland. Defendant shall continue influent sampling at intervals determined by Defendants but no less than every hour during the filling of the Constructed Wetland

Defendants shall initiate effluent sampling within 30 minutes after the beginning of a discharge from the Constructed Wetland. Defendant shall continue effluent sampling at intervals determined by Defendants but no less than every hour during discharge. Defendants shall analyze composite samples taken for TSS and CBOD₅. Defendants must sample for E. coli daily when discharging. If Defendants choose to disinfect using chlorine, Defendants shall take and analyze a grab sample of residual chlorine each time a separate grab sample of E. coli is taken. Defendants shall perform a representative pH grab sample for each Constructed Wetland discharge event. Defendants shall conform all sampling to the requirements in 40 CFR Part 136.

Defendants shall calculate the TSS percent reduction by mass for each discharge day using the corresponding day's TSS influent and effluent sampling results and corresponding Constructed Wetland inflow and outflow volumes. The typical calculation for TSS percent reduction for a single discharge event would be:

$$r_e = 1 - (t_e \times v_e) / (t_i \times v_i) = \text{TSS percent removal}$$

Where:

- r_e = TSS percent removal for event e
- t_e = average of the TSS effluent concentrations
- v_e = total effluent volume
- t_i = the average of the TSS influent concentrations
- v_i = total influent volume

The flow weighted percent removal shall be calculated by multiplying the computed TSS percent removal by the total volume for each discharge event. A sample 12-Month Rolling Average for flow weight TSS percent removal would be:

$$((r_1 \times v_1) + (r_2 \times v_2) + (r_3 \times v_3) \dots) / (v_1 + v_2 + v_3 \dots) = \text{the flow weighted TSS percent removed running total}$$

Where:

- r = percent of mass removed
- v = total effluent volume discharged from the Constructed Wetland during each event
- $_1$ = the first discharge event, $_2$ = the second discharge event, and so on and so forth

After the 13th month of operation, the results used in the TSS percent removal from the 1st month of operation would drop off the 12-Month Rolling Average. This process will continue for each subsequent month in which newest month's results would be added and the oldest month's discharge results would be dropped off in the calculation and so on. If there is no discharge in a month from the Constructed Wetland, Defendants shall report "No Discharge" on the Monthly Report.

2. Monthly Report Requirements for the Constructed Wetland

In addition to the requirements of Section E of this Appendix H, Defendants shall include in the Monthly Report all sample results for TSS, CBOD₅, pH, E. coli and, if applicable, residual chlorine for the Constructed Wetland. Defendants shall report TSS, CBOD₅, and residual chlorine as concentrations (mg/L). Defendants shall report E. coli as cfu/100 mL and pH as s.u.

In addition, Defendants shall include in the Monthly Report the calculation of the 12-Month Rolling Average for TSS. Defendants shall compare that value to the Performance Criterion of 50% TSS removal stated in Appendix G, and state in each Monthly Report each instance in which that requirement was not met during that month. In addition, Defendants shall also include in each Monthly Report:

- The Constructed Wetland maximum water elevation for each wetland discharge event;
- The results of each individual E. coli grab sample taken;
- The monthly geometric mean for all of the E. coli samples taken in the previous month;
- The date and time each E. coli grab sample was taken and the estimated flow being discharged from the Constructed Wetland;
- Corresponding precipitation information for each discharge event;
- Any dry weather discharges that occurred from the Constructed Wetland within the previous month (include the start and end time of the dry weather discharge and the total volume discharged); and
- The start and end time and the total volume discharged from outfall CSO 001 for each day when the CSO discharged in the previous month.
- The flow in MGD discharged from the Wetland for each calendar day CSO 001 discharged.

3. Continuous Operation of the Constructed Wetland

When the Constructed Wetland is not operating at greater than its design maximum flow of 198 million gallons per day, no CSOs shall occur at Kentucky Avenue (CSO 001). The bypass provisions within 40 CFR 122.41(m) shall apply to any bypasses of the Constructed Wetland. Defendants shall not fill the wetland when the East WWTP is receiving flows less than 40 MGD, except as necessary to maintain water levels to support vegetation. During this exception, Defendant shall only use effluent treated with full secondary treatment at the East WWTP, and each such instance during a month in which Defendant fills the wetland shall be documented in the Monthly Report. Defendant shall conduct TSS sampling of the East WWTP effluent, regardless of the duration of the inflow, used to support the Constructed Wetland's vegetation and shall include this sampled TSS concentration and the applicable inflow volume in the TSS percent removal calculation.

Defendants shall begin monitoring the flow weighted TSS percent removal at the Constructed Wetland by no later than January 1, 2025 or after achievement of full operation, whichever is earlier.

Defendants shall perform all sampling for the Constructed Wetland at a point representative of the Constructed Wetland's effluent, before admixture with any other flow. Defendant shall monitor the other flow, including but not limited to WWTP discharge or a CSO, before combining with effluent from the Constructed Wetland. Defendants shall report this measured other flow within the Monthly Report, including the start and end time and the total volume discharged, when the Constructed Wetland is discharging.

D. Vertical Treatment Unit (VTU) Monitoring Procedure

1. Sampling Requirements

Defendants shall conduct influent and effluent sampling when the VTU is discharging. Defendants shall measure the VTU's effluent discharge volume at a representative location and log the discharge event in 15 minutes intervals to determine rates of emptying of the system during and after wet weather events. Defendants shall average outflow data on an hourly basis to correspond with samples being taken.

Defendants shall monitor, and include in the Monthly Report required under Section E of this Appendix H, the total volume (gallons) of wastewater captured and pumped to Evansville's East WWTP. Defendants shall sample VTU influent and effluent at representative inflow and outflow locations. Defendants shall analyze samples for TSS, CBOD₅, residual chlorine, pH, and E. coli.

Defendants shall use an automatic sampler that collects samples at defined intervals or shall take grab samples. Defendants shall collect each sample, whether automatic or grab, during representative inflow into or representative discharges from the VTU. Defendants shall initiate sampling within 30 minutes from the beginning of the filling of the VTU for influent sampling and within 30 minutes after the discharge event begins for effluent sampling. Defendants shall continue at intervals determined by Defendants but no less than every hour during the event. Defendants shall composite samples taken for TSS and CBOD₅. Defendants must sample for E. coli daily when discharging. If Defendants choose to disinfect using chlorine, Defendants shall perform and analyze a grab sample of residual chlorine each time a separate grab sample of E. coli is performed. Defendants shall perform a representative pH grab sample for each VTU discharge event. Defendants shall conform all sampling to the requirements in 40 CFR Part 136.

Defendants shall calculate the TSS percent reduction for the VTU using the appropriate TSS influent and effluent sampling results for each discharge event. The typical calculation for TSS percent reduction for a single discharge event is:

$$r_e = 1 - (t_e \times v_e) / (t_i \times v_e) = \text{TSS percent removal}$$

Where:

- r_e = TSS percent removal for event e
- t_e = average of the TSS effluent concentrations
- v_e = total effluent volume

- t_i = the average of the TSS influent concentrations

Defendants shall calculate the flow weighted percent removal by multiplying the computed TSS percent removal by the total volume. A sample 12-Month Rolling Average for flow weighted TSS percent removal would be:

$$\frac{((r_1 \times v_1) + (r_2 \times v_2) + (r_3 \times v_3) \dots)}{(v_1 + v_2 + v_3 \dots)} = \text{the flow weighted TSS percent removed running total}$$

Where:

- r = percent of mass removed
- v = volume discharged in each event
- $_1$ = the first discharge event, $_2$ = the second discharge event, and so on and so forth

After the 13th month of operation, the results used in the TSS percent removal from the 1st months of operation would drop off the rolling 12-Month Rolling Average. This process will continue for each subsequent month, in which newest month's results would be added and the oldest discharge results would be dropped off in the calculation and so on. If there is no discharge in a month from the VTU, Defendants shall report "No Discharge" for that month on the Monthly Report.

Defendants shall include the calculation of the 12-Month Rolling Average in the Monthly Report submitted to EPA and IDEM. Defendants shall compare this value to the requirement for 50% TSS removal and identify in its reports when that requirement is not met.

2. Monthly Report Requirements for the VTU

In addition to the requirements of Section E of this Appendix H, Defendants shall include the results for TSS, CBOD₅, E. coli, pH, and, if applicable, residual chlorine for the VTU in the Monthly Report required under Section E of this Appendix H. Defendants shall report TSS, CBOD₅, and residual chlorine as concentrations (mg/L). Defendants shall report E. coli as cfu/100 mL and pH as s.u.

In addition, Defendants shall include in the Monthly Report the calculation of the VTU's 12-Month Rolling Average for TSS percent reduction. Defendants shall compare that value to the Performance Criterion of 50% TSS removal stated in Appendix G, and state in each Monthly Report each instance in which that requirement was not met during that month. In addition, Defendants shall also include in each Monthly Report:

- The results of each individual E. coli grab sample taken;
- The monthly geometric mean for all of the E. coli samples taken in the previous month;
- The date and time each E. coli grab sample was taken and the estimated flow being discharged from the VTU;
- Corresponding precipitation information for each discharge event;

- Any dry weather discharges that occurred from the VTU within the previous month (include the start and end time of the dry weather discharge and the total volume discharged);
 - The start and end time and the total volume discharged from outfall CSO 002 and CSO 004 for each day either of the CSOs discharged in the previous month; and.
 - The flow in MGD discharged from the VTU for each calendar day whenever either CSO 002 or CSO 004 discharge.
3. Continuous Operation of the VTU During Discharges/Prohibition on Dry Weather Discharges

No CSOs shall occur at Cass Avenue (CSO 002) or at Adams Avenue (CSO 004) when the VTU is operating at or below its design maximum flow of 226 million gallons per day. The provisions of 40 C.F.R. § 122.41(m) apply to all bypasses at the VTU. The VTU is prohibited from discharging during dry weather conditions.

Defendants shall operate the VTU in order to maximize the amount of wastewater captured and pumped back to Defendants' East WWTP. The amount of wastewater pumped back to the East WWTP will not be included in TSS percent removal calculation for the VTU.

Defendants shall begin monitoring and sampling influent and effluent at the VTU, and begin calculating the flow weighted percent removal, on January 1, 2033 or after achievement of full operation, whichever is earlier.

Defendant shall perform all sampling for the VTU at a point representative of the VTU's effluent, before admixture with any other flow. Defendants shall monitor the other flow, including but not limited to WWTP discharge or a CSO, before combining with effluent from the VTU. Defendants shall report this other measured flow within the Monthly Report, including the start and end time and the total volume discharged, when the VTU is discharging.

E. Requirements for Monthly Reports

Defendants shall submit a Monthly Report to the addresses for EPA and IDEM identified in Paragraph 98 of the Consent Decree. The Monthly Report shall be submitted on the 28th day of each month until termination of the Consent Decree, beginning on January 1, 2025 or after achievement of full operation of the Constructed Wetland, whichever is earlier. In addition to the foregoing requirements in this Appendix H, and for each measurement or sample provided within the Monthly Report, Defendants shall record and maintain records of all the monitoring or sampling information, including the following:

- The exact place, date, and time of sampling/measurement
- The names and titles of the person(s) who performed the sampling/measurement
- The date and times the analyses were performed
- The names and titles of the person(s) who performed the analyses
- The analytical techniques or methods used

- All relevant calibration records pertaining to the analyses performed
- The results of all analyses and measurements performed

In addition, Defendants shall report precipitation events in each Monthly Report, including the amount of precipitation, the duration of the event, and the type of precipitation. If excessive snowmelt was a condition that caused a CSO discharge from the Remote Treatment Units, Constructed Wetland, or VTU, Defendants must include in the Monthly Report an estimate of the amount of snow in inches melted that caused the discharges.

If Defendants fill the Constructed Wetland as permitted by Section C.3 of this Appendix H for the purpose of maintaining water levels to support vegetation and the intended wastewater treatment function of the wetland, then Defendants shall report in the Monthly Report for that month the volume of treated effluent discharged to the wetland and the date and duration of discharge.

The following influent and effluent sampling requirements in Table 1, below, shall apply to the Seventh Avenue Lift Station Remote Treatment Unit, the Diamond Avenue Remote Treatment Unit, the VTU, and the Constructed Wetland, and shall be included in each Monthly Report.

Table 1

Evansville Proposed Sampling Requirements		
	Influent (units)	Effluent (units)
Total Suspended Solids	mg/L	mg/L
CBOD5	mg/L	mg/L
pH	s.u.	s.u.
E. coli	cfu/100 mL	cfu/100 mL
Residual Chlorine	mg/L	mg/L

Defendants shall retain this information and any additional calibration, record of analyses performed, maintenance of instrumentation and recording from continuous monitoring instrumentation for at least 5 years after the termination of the Consent Decree in accordance with Paragraph 109 in the Consent Decree.

Appendix I: Non-IOCP Capital Investments

APPENDIX I: Non-IOCP Capital Investments

A	B	E	H	J	AP	AY	BI	BV	BW	CI
Investment Number	Service Area	Project Type	Long Description	Project Source	Start Year	2012 Planning Level Submitted Capital Costs	Actual Total Project Cost	Commence Construction	AFO	Appendix I Designation
S0001	West	Lift Station	Design and Construction of Cantex conversion to submersible pumps at the Beverly Heights lift station	Master Plan	2016	\$342,000				Base
S0002	East	CSO	Design and Construction of CASS CSO flow monitoring improvements and pipe extention	Management Plan	2016	\$1,200,000				Base
S0003	East	Lift Station	Design and Construction of lift station improvements for the Cross Point lift station	Master Plan	2016	\$625,000				Base
S0004	East	Lift Station	Design and Construction of a new force main for the Eagles lift station replacement	Master Plan	2016	\$1,092,000				Base
S0005	East	Lift Station	Design and Construction of the replacement and upgrade of the Eastland Mall lift station	Master Plan	2016	\$342,000				Base
S0006	East	Lift Station	Design and Construction of the replacement and upgrade of the Indian Woods lift station	Master Plan	2016	\$293,000				Base
S0007	East	Lift Station	Design and Construction of lift station rehabilitation of the Junior Warfield lift station and driveway approach	Master Plan	2016	\$455,000				Base
S0008	West	Lift Station	Design and Construction of a new Key West lift station	Master Plan	2016	\$1,090,000				Base
S0009	West	Lift Station	Design and Construction of lift station improvements for the North Park lift station replacement	Master Plan	2016	\$293,000				Base
S0010	East	Lift Station	Construction to convert existing Oak Grove lift station from a Cantex to a submersible pump station	Master Plan	2016	\$583,000				Base
S0011	West	Collection	Design and Construction to extend sanitary sewer and eliminating need for this lift station	Master Plan	2016	\$180,000				Base
S0012	West	West Treatment Plant	Odor Control Biofilter for Gravity Belt Thickener Building	Management Plan	2016	\$250,000				Base
S0013	West	Lift Station	Study lift station replacement options	Master Plan	2016	\$200,000				Base
S0014	East	Lift Station	Design and Construction of lift station improvements at Pine Lake lift station repalcement	Master Plan	2016	\$303,000				Base
S0015	All	Collection	Study to inspect, evaluate, and prioritize all sanitary sewer siphons	Master Plan	2016	\$145,000				Base
S0016	East	East Treatment Plant	Design and Construction of waste activated sludge and return activated sludge piping improvements at the east treatment plant	Master Plan	2016	\$2,712,000				Base
S0017	East	East Treatment Plant	Design and Construction for the replacement of 3 return activated sludge pumps at the east plant	Master Plan	2016	\$765,000				Base
S0018	East	Lift Station	Design and Construction of lift station improvements at Regal Eight lift station	Master Plan	2016	\$269,000				Base
S0019	All	Lift Station	Annual SCADA upgrades and Project Programming / Integration required	Master Plan	2016	\$300,000				Base
S0020	East	East Treatment Plant	Design and Reconstructon of the small contact tank walls and baffles for additional chlorine contact time for the additional flows at the east plant	Maintenance	2016	\$250,000				Base
S0021	West	Lift Station	Design and Construction of lift station improvements at the Tall Timbers lift station	Master Plan	2016	\$463,000				Base
S0022	East	Lift Station	Design and Construction of Cantex lift station conversion to submersible pumps at Twickingham lift station	Master Plan	2016	\$390,000				Base
S0023	East	Lift Station	Design and Construction of lift station improvements at the Wazny Way lift station and CMOM 3.0 requirements	Master Plan	2016	\$402,000				Base
S0024	All	Vehicles	Replacement Vehicle #548-2000 - Engineering PM Pool Vehicle SUV	Management Plan	2016	\$24,800				Base

Appendix I: Non-IOCP Capital Investments

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Investment Number	Service Area	Project Type	Long Description	Project Source	Start Year	2012 Planning Level Submitted Capital Costs	Actual Total Project Cost	Commence Construction	AFO	Appendix I Designation
S0025	All	Equipment	Replacement Dump Truck #521-2006 Construction Pool Sterling Dump Truck	Management Plan	2016	\$77,000				Base
S0026	All	Equipment	Replace Planning 32-ISCO Flow Meters	Management Plan	2016	\$140,000				Base
S0027	All	Vehicles	Replacement Vehicle #524-2006 4x4 SUV	Management Plan	2016	\$26,200				Base
S0028	All	Vehicles	Replacement Vehicle #526-1999 SUV	Management Plan	2016	\$35,000				Base
S0029	All	Vehicles	Replacement Vehicle #533-2006 Crew Van	Management Plan	2016	\$36,000				Base
S0030	All	Vehicles	Replacement Vehicle #534-1996 Pickup F-350	Management Plan	2016	\$40,000				Base
S0031	All	Vehicles	Replacement Vehicle #545-2002 Pickup F-250	Management Plan	2016	\$32,000				Base
S0032	All	Equipment	Replacement Dump Truck #577-2001 Dump Truck	Management Plan	2016	\$108,000				Base
S0033	All	Equipment	Replace Water Planning Generator #277	Management Plan	2016	\$10,000				Base
S0034	All	Equipment	Replace CCTV Camera #277	Management Plan	2016	\$21,000				Base
S0035	All	Equipment	Replace CCTV Reel & Cable #277	Management Plan	2016	\$22,000				Base
S0036	All	Equipment	Replace CCTV Pipe Ranger Tractor #277	Management Plan	2016	\$18,000				Base
S0037	All	Equipment	Replace K-2 Summit CCU/VID CPU #277	Management Plan	2016	\$7,000				Base
S0038	All	Equipment	Replace EnviroSight Pole Cam#1	Management Plan	2016	\$15,000				Base
S0039	All	Lift Station	10-yr lift station pump replacement cycle with 20-yr station rehab/replace cycle built in	Management Plan	2016	\$156,000				Base
S0040	West	Lift Station	Design and Construction of First Avenue lift station replacement and CMOM 3.0 requirements	Management Plan	2016	\$293,000				Base
S0041	East	Lift Station	Design and Construction of Greencove lift station replacement	Management Plan	2016	\$342,000				Base
S0042	All	Transportation Relocation	Undistributed Projects	Management Plan	2016	\$200,000				Base
S0043	All	Lift Station	Air Release Valve Replacement Program	Management Plan	2016	\$300,000				Base
S0044	East	East Treatment Plant	1.2.5.1.1 Rehabilitate Aeration Splitter Box Concrete	Management Plan	2016	\$50,000				Base
S0045	East	East Treatment Plant	1.2.7.1.2 Replace Secondary Blower Building Roof	Management Plan	2016	\$20,000				Base
S0046	East	East Treatment Plant	1.2.14.7.1 Polymer Feed System	Management Plan	2016	\$150,000				Base
S0047	East	East Treatment Plant	1.2.18.2 Sludge Building Roof	Management Plan	2016	\$300,000				Base
S0048	West	West Treatment Plant	1.1.5.1.1 Rehabilitate Aeration Splitter Box Concrete	Management Plan	2016	\$50,000				Base
S0049	West	West Treatment Plant	1.1.14.2 Thickener and Dewatering Building Roof Replacement	Management Plan	2016	\$40,000				Base
S0050	West	West Treatment Plant	1.1.14.7.1 Polymer Feed System	Management Plan	2016	\$150,000				Base
S0051	All	Collection	On Call Realtor Contract for opinion costs related to easement needs	Management Plan	2016	\$10,000				Base
S0052	East	East Treatment Plant	Design and Construction of modifications to the aeration piping at the east treatment plant, phase II	Master Plan	2017	\$1,000,000				Base
S0053	East	East Treatment Plant	Design and Construction of modifications to the aeration basin selector at the east treatment plant	Master Plan	2017	\$384,000				Base
S0054	West	Lift Station	Design and Construction of a new Pfeiffer Road lift station relocated to the Wansford Yard property	Master Plan	2017	\$27,000,000				Base
S0055	All	Vehicles	Replacement Vehicle #547-2006 Pickup	Management Plan	2017	\$46,000				Base
S0056	All	Vehicles	Replacement Vehicle #550-1999 4-Dr Sedan	Management Plan	2017	\$25,500				Base
S0057	All	Vehicles	Replacement Vehicle #551-1999 Pickup	Management Plan	2017	\$25,500				Base
S0058	All	Equipment	Replacement Vac Truck #584-2004 Sterling Truck Vac Truck	Management Plan	2017	\$232,000				Base
S0059	All	Equipment	Sewer Line Rapid Assessment Tool SL-RAT	Management Plan	2017	\$22,000				Base
S0060	All	Lift Station	10-yr lift station pump replacement cycle with 20-yr station rehab/replace cycle built in	Management Plan	2017	\$156,000				Base
S0061	East	Lift Station	Design and Construction of Bonnieview and Oak lift station replacement; manifold with Plaza Drive	Management Plan	2017	\$293,000				Base

Appendix I: Non-IOCP Capital Investments

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Investment Number	Service Area	Project Type	Long Description	Project Source	Start Year	2012 Planning Level Submitted Capital Costs	Actual Total Project Cost	Commence Construction	AFO	Appendix I Designation
S0062	West	Lift Station	Design and Construction of Tonia Court lift station equipment rehabilitation and CMOM 3.0 requirements	Management Plan	2017	\$171,000				Base
S0063	West	Lift Station	Design and Construction of Wynnfield lift station replacement	Management Plan	2017	\$946,000				Base
S0064	All	STEP	Step Project	Management Plan	2017	\$100,000				Base
S0065	West	West Treatment Plant	1.1.22.1 Paving	Management Plan	2017	\$250,000				Base
S0066	West	West Treatment Plant	1.1.22.2 Fencing	Management Plan	2017	\$125,000				Base
S0067	All	Collection	On Call Realtor Contract for opinion costs related to easement needs	Management Plan	2017	\$10,000				Base
S0068	All	Development Relocation	Undistributed Projects for Development required relocation	Management Plan	2017	\$500,000				Base
S0069	West	Lift Station	Pump replacement at the Seventh Avenue lift station	Master Plan	2018	\$316,000				Base
S0070	East	Collection	Design and Construction of the interceptor for Valley Downs to increase sewer capacity	Master Plan	2018	\$3,260,000				Base
S0071	All	Vehicles	Replacement Vehicle #571-2011 - Engineering Tech Pool Vehicle E450 Camera Van	Management Plan	2018	\$196,000				Base
S0072	All	Equipment	Replacement Vehicle #501-2014 Construction Backhoe Case 590SM III	Management Plan	2018	\$103,000				Base
S0073	All	Vehicles	Replacement Vehicle #553-1991 Sludge Tractor	Management Plan	2018	\$126,000				Base
S0074	All	Equipment	Replacement Equipment Excavator 290	Management Plan	2018	\$238,000				Base
S0075	All	Lift Station	10-yr lift station pump replacement cycle with 20-yr station rehab/replace cycle built in	Management Plan	2018	\$156,000				Base
S0076	All	Collection	Annual asset management contract	Master Plan	2019	\$50,000				Base
S0077	All	Collection	Annual GIS maintenance contract	Master Plan	2019	\$50,000				Base
S0078	All	Treatment Plant	Relocation of the sewer laboratory from its current location to one of the treatment plants	Maintenance	2019	\$1,000,000				Base
S0079	All	Equipment	Replacement Equipment #504-2015 Ditch Witch Mini Excavator	Management Plan	2019	\$70,000				Base
S0080	All	Vehicles	Replacement Vehicle #506-2011 Construction Supervisor F-150 Crew Cab	Management Plan	2019	\$40,000				Base
S0081	All	Vehicles	Replacement Vehicle #570-1996 CCTV Van	Management Plan	2019	\$152,000				Base
S0082	All	Vehicles	Replacement Vehicle #541-2011 F-550 Crane Truck	Management Plan	2019	\$112,000				Base
S0083	All	Lift Station	10-yr lift station pump replacement cycle with 20-yr station rehab/replace cycle built in	Management Plan	2019	\$156,000				Base
S0084	West	Lift Station	Refurbish Bar Screen	Management Plan	2019	\$120,000				Base
S0085	West	Lift Station	New Proposed Creamery Road Lift Station, Regional lift station along University parkway	Management Plan	2019	\$11,500,000				Base
S0086	East	Collection	Vortex installation at the receiving manhole of Stockwell force main at Vann and lloyd	Management Plan	2019	\$50,000				Base
S0087	All	Lift Station	10-yr lift station pump replacement cycle with 20-yr station rehab/replace cycle built in	Management Plan	2020	\$156,000				Base
S0088	East	East Treatment Plant	1.2.1.10 Rehab Screen and Sensors #1	Management Plan	2020	\$100,000				Base
S0089	East	East Treatment Plant	1.2.1.1 Replace Primary Pre-Aeration Blower #1	Management Plan	2020	\$50,000				Base
S0090	East	East Treatment Plant	1.2.16.1 Plant Water Pump #1	Management Plan	2020	\$50,000				Base
S0091	West	West Treatment Plant	1.1.1 Screening Structure	Management Plan	2020	\$100,000				Base
S0092	West	West Treatment Plant	1.1.4.1 Grit Conveyor	Management Plan	2020	\$20,000				Base
S0093	West	West Treatment Plant	1.1.1.1 Replace Primary Pre-Aeration Blower #1	Management Plan	2020	\$50,000				Base
S0094	West	West Treatment Plant	1.1.3.3 Grinder	Management Plan	2020	\$40,000				Base
S0095	West	West Treatment Plant	1.1.16.1 Plant Water Pump #1	Management Plan	2020	\$30,000				Base
S0096	All	Collection	Annual asset management contract	Master Plan	2020	\$50,000				Base
S0097	All	Collection	Annual GIS maintenance contract	Master Plan	2020	\$50,000				Base

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Investment Number	Service Area	Project Type	Long Description	Project Source	Start Year	2012 Planning Level Submitted Capital Costs	Actual Total Project Cost	Commence Construction	AFO	Appendix I Designation
S0098	All	Lift Station	Annual SCADA upgrades and Project Programming / Integration required	Master Plan	2020	\$300,000				Base
S0099	West	West Treatment Plant	Digester Control Building Roof	Management Plan	2020	\$20,000				Base
S0100	West	West Treatment Plant	Primary Sludge Removal Building Roof	Management Plan	2020	\$5,000				Base
S0101	West	West Treatment Plant	Chlorine Storage Building	Management Plan	2020	\$10,000				Base
S0102	East	East Treatment Plant	Digester Control Building Roof	Management Plan	2020	\$20,000				Base
S0103	East	East Treatment Plant	Primary Storage Building Roof	Management Plan	2020	\$15,000				Base
S0104	East	East Treatment Plant	Generator Building Roof	Management Plan	2020	\$25,000				Base
			TOTAL 2016-2020			\$65,689,000				
S0105	All	Vehicles	Replacement Vehicle #509-2013 Construction Pool Vehicle F350 Supercab Duel Wheel	Management Plan	2021	\$35,000				Base
S0106	All	Vehicles	Replacement Vehicle #519-2013 Pickup F-150	Management Plan	2021	\$23,400				Base
S0107	All	Vehicles	Replacement Vehicle #539-2013 Pickup 4x4 F-150	Management Plan	2021	\$25,100				Base
S0108	All	Vehicles	Replacement Vehicle #551-2013 Connect Van	Management Plan	2021	\$22,400				Base
S0109	All	Equipment	Replacement Vac Truck #587-2014 Vactor	Management Plan	2021	\$264,000				Base
S0110	All	Vehicles	Replacement Vehicle #544-2013 F-350 Crane Truck	Management Plan	2021	\$112,000				Base
S0111	All	Equipment	Sewer Line Rapid Assessment Tool SL-RAT	Management Plan	2021	\$22,000				Base
S0112	All	Lift Station	10-yr lift station pump replacement cycle with 20-yr station rehab/replace cycle built in	Management Plan	2021	\$156,000				Base
S0113	West	Lift Station	Design and Construction of Daylight North lift station equipment rehabilitation	Management Plan	2021	\$171,000				Base
S0114	East	Lift Station	Design and Construction of Parkside Terrace lift station equipment rehabilitation	Management Plan	2021	\$171,000				Base
S0115	East	Collection	18" Sanitary sewer extension from GRR Estates across CFC to Hedden	Management Plan	2021	\$215,000				Base
S0116	All	Transportation Relocation	Undistributed Projects	Management Plan	2021	\$200,000				Base
S0117	All	STEP	Step Project	Management Plan	2021	\$100,000				Base
S0118	All	Collection	Annual asset management contract	Master Plan	2021	\$50,000				Base
S0119	All	Collection	Annual GIS maintenance contract	Master Plan	2021	\$50,000				Base
S0120	All	Lift Station	Annual SCADA upgrades and Project Programming / Integration required	Master Plan	2021	\$300,000				Base
S0121	All	Collection	On Call Realtor Contract for opinion costs related to easement needs	Management Plan	2021	\$10,000				Base
S0122	All	Development Relocation	Undistributed Projects for Development required relocation	Management Plan	2021	\$500,000				Base
S0123	All	Equipment	Replacement Vehicle #501-2018 Construction Backhoe Case 590SM III	Management Plan	2022	\$103,000				Base
S0124	All	Equipment	Replacement Dump Truck #520-2014 Construction Pool Truck Sterling Tandem Dump Truck	Management Plan	2022	\$100,000				Base
S0125	All	Equipment	Replace Planning 32-ISCO Flow Meters	Management Plan	2022	\$140,000				Base
S0126	All	Vehicles	Replacement Vehicle #505-2014 SUV	Management Plan	2022	\$26,000				Base
S0127	All	Lift Station	10-yr lift station pump replacement cycle with 20-yr station rehab/replace cycle built in	Management Plan	2022	\$156,000				Base
S0128	West	Lift Station	Design and Construction of Vanderburgh Industrial Park lift station equipment rehabilitation	Management Plan	2022	\$449,000				Base
S0129	All	Collection	Annual asset management contract	Master Plan	2022	\$50,000				Base
S0130	All	Collection	Annual GIS maintenance contract	Master Plan	2022	\$50,000				Base
S0131	All	Collection	On Call Realtor Contract for opinion costs related to easement needs	Management Plan	2022	\$10,000				Base

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Investment Number	Service Area	Project Type	Long Description	Project Source	Start Year	2012 Planning Level Submitted Capital Costs	Actual Total Project Cost	Commence Construction	AFO	Appendix I Designation
S0132	All	Vehicles	Replacement Vehicle #525-2014 - Engineering Project Development Coordinator SUV	Management Plan	2023	\$24,700				Base
S0133	All	Equipment	Replacement Equipment #504-2019 Ditch Witch Mini Excavator	Management Plan	2023	\$70,000				Base
S0134	All	Equipment	Replacement Equipment #504-T-2001 Belsh Trailer	Management Plan	2023	\$5,000				Base
S0135	All	Vehicles	Replacement Vehicle #530-2015 Crew Van	Management Plan	2023	\$36,000				Base
S0136	All	Equipment	Replacement Vac Truck #584-2017 Sterling Truck Vac Truck	Management Plan	2023	\$232,000				Base
S0137	All	Equipment	Replace Water Planning Generator #571	Management Plan	2023	\$10,000				Base
S0138	All	Equipment	Replace CCTV Camera #571	Management Plan	2023	\$21,000				Base
S0139	All	Equipment	Replace CCTV Reel & Cable #571	Management Plan	2023	\$22,000				Base
S0140	All	Equipment	Replace CCTV Pipe Ranger Tractor #571	Management Plan	2023	\$18,000				Base
S0141	All	Equipment	Replace K-2 Summit CCU/VID CPU #571	Management Plan	2023	\$7,000				Base
S0142	All	Lift Station	10-yr lift station pump replacement cycle with 20-yr station rehab/replace cycle built in	Management Plan	2023	\$156,000				Base
S0143	All	Vehicles	Replacement Vehicle #5xx-2015 - Engineering PM Pool Vehicle 4-Dr Sedan	Management Plan	2024	\$18,600				Base
S0144	All	Vehicles	Replacement Vehicle #524-2016 4x4 SUV	Management Plan	2024	\$26,200				Base
S0145	All	Vehicles	Replacement Vehicle #526-2016 SUV	Management Plan	2024	\$35,000				Base
S0146	All	Vehicles	Replacement Vehicle #534-2016 Pickup F-350	Management Plan	2024	\$40,000				Base
S0147	All	Vehicles	Replacement Vehicle #545-2016 Pickup F-250	Management Plan	2024	\$32,000				Base
S0148	All	Equipment	Replacement Dump Truck #577-2016 Dump Truck	Management Plan	2024	\$108,000				Base
S0149	All	Lift Station	10-yr lift station pump replacement cycle with 20-yr station rehab/replace cycle built in	Management Plan	2024	\$156,000				Base
S0150	West	Lift Station	Refurbish Bar Screen	Management Plan	2024	\$120,000				Base
S0151	East	East Treatment Plant	1.2.9.12 Replace RAS Pump #7	Management Plan	2024	\$250,000				Base
S0152	West	West Treatment Plant	1.1.9.12 Replace RAS Pump #7	Management Plan	2024	\$300,000				Base
S0153	West	West Treatment Plant	1.1.9.13 Replace RAS Pump #8	Management Plan	2024	\$300,000				Base
S0154	All	Vehicles	Replacement Vehicle #550-2017 4-Dr Sedan	Management Plan	2025	\$25,500				Base
S0155	All	Lift Station	10-yr lift station pump replacement cycle with 20-yr station rehab/replace cycle built in	Management Plan	2025	\$156,000				Base
S0156	West	Lift Station	Design and Construction of Eagle Village lift station equipment rehabilitation	Management Plan	2025	\$255,000				Base
S0157	East	East Treatment Plant	1.2.1.6 Replace Influent Pump #1	Management Plan	2025	\$200,000				Base
S0158	East	East Treatment Plant	1.2.1.10 Replace Screen and Sensors #1	Management Plan	2025	\$500,000				Base
S0159	East	East Treatment Plant	1.2.1.12 Replace Screenings Washer #1	Management Plan	2025	\$70,000				Base
S0160	East	East Treatment Plant	1.2.1.14 Replace Vortex Grit Removal System #1	Management Plan	2025	\$90,000				Base
S0161	East	East Treatment Plant	1.2.1.16 Replace Grit Classifier #1	Management Plan	2025	\$100,000				Base
S0162	East	East Treatment Plant	1.2.1.18 Replace Conveyor #1	Management Plan	2025	\$100,000				Base
S0163	East	East Treatment Plant	1.2.4.1 Rehabilitate Primary Clarifier #1, Drive, Sprockets, Chains, and concrete restoration	Management Plan	2025	\$230,000				Base
S0164	East	East Treatment Plant	1.2.4.2 Rehabilitate Primary Clarifier #2, Drive, Sprockets, Chains, and concrete restoration	Management Plan	2025	\$230,000				Base
S0165	East	East Treatment Plant	1.2.14.18 Gravity Belt Thickener#1	Management Plan	2025	\$350,000				Base
S0166	West	West Treatment Plant	1.1.1 Screening Structure	Management Plan	2025	\$100,000				Base
S0167	West	West Treatment Plant	1.1.2.1 Raw Sewage Pump #1 - Gas Engine	Management Plan	2025	\$550,000				Base
S0168	West	West Treatment Plant	1.1.2.1.1 Suction Valve	Management Plan	2025	\$50,000				Base

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Investment Number	Service Area	Project Type	Long Description	Project Source	Start Year	2012 Planning Level Submitted Capital Costs	Actual Total Project Cost	Commence Construction	AFO	Appendix I Designation
S0169	West	West Treatment Plant	1.1.2.1.2 Discharge Valve	Management Plan	2025	\$50,000				Base
S0170	West	West Treatment Plant	1.1.2.1.3 Check Valve	Management Plan	2025	\$72,000				Base
S0171	West	West Treatment Plant	1.1.2.5 Plant Effluent #2 - Gas Engine	Management Plan	2025	\$550,000				Base
S0172	West	West Treatment Plant	1.1.2.5.1 Suction Valve	Management Plan	2025	\$50,000				Base
S0173	West	West Treatment Plant	1.1.2.5.2 Discharge Valve	Management Plan	2025	\$50,000				Base
S0174	West	West Treatment Plant	1.1.2.5.3 Check Valve	Management Plan	2025	\$72,000				Base
S0175	West	West Treatment Plant	1.1.2.11 Bridge Crane Lifting System	Management Plan	2025	\$70,000				Base
S0176	West	West Treatment Plant	1.1.3 Grit Removal System Rehab	Management Plan	2025	\$160,000				Base
S0177	West	West Treatment Plant	1.1.4.1 Grit Dewatering Unit	Management Plan	2025	\$100,000				Base
S0178	West	West Treatment Plant	1.1.4.2 Grit Screw Conveyor	Management Plan	2025	\$20,000				Base
S0179	West	West Treatment Plant	1.1.4.1 Grit Conveyor	Management Plan	2025	\$20,000				Base
S0180	West	West Treatment Plant	1.1.4.1 Rehabilitate Primary Clarifier #1, Drive, Sprockets, Chains, and concrete restoration	Management Plan	2025	\$230,000				Base
S0181	West	West Treatment Plant	1.1.4.2 Rehabilitate Primary Clarifier #2, Drive, Sprockets, Chains, and concrete restoration	Management Plan	2025	\$230,000				Base
S0182	West	West Treatment Plant	1.1.14.12.1 Moyno Progressive Cavity Pump #1	Management Plan	2025	\$200,000				Base
S0183	West	West Treatment Plant	1.1.14.13.1 Moyno WAS Feed Pump #1	Management Plan	2025	\$100,000				Base
S0184	West	West Treatment Plant	1.1.14.18 Gravity Belt Thickener #1	Management Plan	2025	\$350,000				Base
S0185	West	West Treatment Plant	BAF Building Roof Replacement	Management Plan	2025	\$30,000				Base
S0186	West	West Treatment Plant	Pre-Aeration Blower Building Roof	Management Plan	2025	\$10,000				Base
S0187	East	East Treatment Plant	Primary Sludge Removal Building Roof	Management Plan	2025	\$5,000				Base
S0188	East	East Treatment Plant	Digester Mixing Building #1 Roof	Management Plan	2025	\$5,000				Base
S0189	East	East Treatment Plant	Digester Mixing Building #2 Roof	Management Plan	2025	\$5,000				Base
S0190	East	East Treatment Plant	Headworks Building Roof	Management Plan	2025	\$25,000				Base
			TOTAL 2016-2025			\$76,597,900				
S0191	All	Vehicles	Replacement Vehicle #513-2017 - Engineering Tech Pool Vehicle SUV	Management Plan	2026	\$24,700				Base
S0192	All	Equipment	Replacement Vehicle #501-2022 Construction Backhoe Case 590SM III	Management Plan	2026	\$103,000				Base
S0193	All	Vehicles	Replacement Vehicle #555-2018 Pickup F-150 XL	Management Plan	2026	\$18,300				Base
S0194	All	Equipment	Replacement Vac Truck #586-2020 Vactor	Management Plan	2026	\$172,000				Base
S0195	All	Equipment	Sewer Line Rapid Assessment Tool SL-RAT	Management Plan	2026	\$22,000				Base
S0196	All	Equipment	Replace Envirosight Pole Cam#1	Management Plan	2026	\$15,000				Base
S0197	All	Lift Station	10-yr lift station pump replacement cycle with 20-yr station rehab/replace cycle built in	Management Plan	2026	\$156,000				Base
S0198	East	Lift Station	Design and Construction of Mystic Creek lift station equipment rehabilitation	Management Plan	2026	\$292,000				Base
S0199	East	Lift Station	Design and Construction of Stockwell lift station equipment rehabilitation	Management Plan	2026	\$594,000				Base
S0200	All	Transportation Relocation	Undistributed Projects	Management Plan	2026	\$200,000				Base
S0201	All	Lift Station	Air Release Valve Replacement Program	Management Plan	2026	\$300,000				Base
S0202	All	Collection	Annual asset management contract	Master Plan	2026	\$50,000				Base
S0203	All	Collection	Annual GIS maintenance contract	Master Plan	2026	\$50,000				Base
S0204	All	Lift Station	Annual SCADA upgrades and Project Programming / Integration required	Master Plan	2026	\$300,000				Base
S0205	All	Collection	On Call Realtor Contract for opinion costs related to easement needs	Management Plan	2026	\$10,000				Base

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Investment Number	Service Area	Project Type	Long Description	Project Source	Start Year	2012 Planning Level Submitted Capital Costs	Actual Total Project Cost	Commence Construction	AFO	Appendix I Designation
S0206	All	Vehicles	Replacement Vehicle #571-2018 - Engineering Tech Pool Vehicle E450 Camera Van	Management Plan	2027	\$196,000				Base
S0207	All	Equipment	Replacement Equipment #504-2023 Ditch Witch Mini Excavator	Management Plan	2027	\$70,000				Base
S0208	All	Vehicles	Replacement Vehicle #506-2019 Construction Supervisor F-150 Crew Cab	Management Plan	2027	\$40,000				Base
S0209	All	Vehicles	Replacement Vehicle #514-2019 Maintenance Supervisor F150 Crew Cab	Management Plan	2027	\$40,000				Base
S0210	All	Vehicles	Replacement Vehicle #507-2019 Pickup F-150 Crew Cab	Management Plan	2027	\$40,000				Base
S0211	All	Vehicles	Replacement Vehicle #570-2019 CCTV Van	Management Plan	2027	\$152,000				Base
S0212	All	Equipment	Replacement Dump Truck #515-2019	Management Plan	2027	\$111,000				Base
S0213	All	Vehicles	Replacement Vehicle #541-2019 F-550 Crane Truck	Management Plan	2027	\$112,000				Base
S0214	All	Equipment	Sewer Line Rapid Assessment Tool SL-RAT	Management Plan	2027	\$22,000				Base
S0215	All	Lift Station	10-yr lift station pump replacement cycle with 20-yr station rehab/replace cycle built in	Management Plan	2027	\$156,000				Base
S0216	West	Lift Station	Design and Construction of Blue Heron lift station equipment rehabilitation	Management Plan	2027	\$231,000				Base
S0217	West	Lift Station	Design and Construction of Broadway and Johnson lift station equipment rehabilitation	Management Plan	2027	\$201,000				Base
S0218	East	Lift Station	Design and Construction of Centerra Ridge lift station equipment rehabilitation	Management Plan	2027	\$545,000				Base
S0219	East	Lift Station	Design and Construction of Delaware Trace lift station equipment rehabilitation	Management Plan	2027	\$189,000				Base
S0220	All	Transportation Relocation	Undistributed Projects	Management Plan	2027	\$200,000				Base
S0221	All	STEP	Step Project	Management Plan	2027	\$100,000				Base
S0222	East	East Treatment Plant	1.2.10 Chlorine Contact Tank Baffles and Concrete repairs	Management Plan	2027	\$350,000				Base
S0223	West	West Treatment Plant	1.1.10 Chlorine Contact Tank Baffles and Concrete repairs	Management Plan	2027	\$350,000				Base
S0224	All	Collection	Annual asset management contract	Master Plan	2027	\$50,000				Base
S0225	All	Collection	Annual GIS maintenance contract	Master Plan	2027	\$50,000				Base
S0226	All	Lift Station	Annual SCADA upgrades and Project Programming / Integration required	Master Plan	2027	\$300,000				Base
S0227	All	Collection	On Call Realtor Contract for opinion costs related to easement needs	Management Plan	2027	\$10,000				Base
S0228	All	Development Relocation	Undistributed Projects for Development required relocation	Management Plan	2027	\$500,000				Base
S0229	West	West Treatment Plant	Repalce AAON HVAC unit	Management Plan	2028	\$20,000				Base
S0230	All	Equipment	Replace Planning 32-ISCO Flow Meters	Management Plan	2028	\$140,000				Base
S0231	All	Equipment	Replacement Equipment Excavator 290	Management Plan	2028	\$238,000				Base
S0232	All	Lift Station	10-yr lift station pump replacement cycle with 20-yr station rehab/replace cycle built in	Management Plan	2028	\$156,000				Base
S0233	East	East Treatment Plant	1.2.9.9 Replace RAS Pump #4	Management Plan	2028	\$250,000				Base
S0234	East	East Treatment Plant	1.2.9.10 Replace RAS Pump #5	Management Plan	2028	\$250,000				Base
S0235	East	East Treatment Plant	1.2.9.16 Replace WAS Pump #1	Management Plan	2028	\$50,000				Base
S0236	East	East Treatment Plant	1.2.9.17 Replace WAS Pump #2	Management Plan	2028	\$50,000				Base
S0237	West	West Treatment Plant	1.1.9.9 Replace RAS Pump #4	Management Plan	2028	\$300,000				Base
S0238	West	West Treatment Plant	1.1.9.10 Replace RAS Pump #5	Management Plan	2028	\$300,000				Base
S0239	West	West Treatment Plant	1.1.9.16 Replace WAS Pump #1	Management Plan	2028	\$50,000				Base
S0240	West	West Treatment Plant	1.1.9.17 Replace WAS Pump #2	Management Plan	2028	\$50,000				Base
S0241	West	West Treatment Plant	1.1.17.2.1 Influent Pump #1	Management Plan	2028	\$160,000				Base
S0242	West	West Treatment Plant	1.1.17.2.1 VFD #1	Management Plan	2028	\$20,000				Base
S0243	West	West Treatment Plant	1.1.17.2.2 Influent Pump #2	Management Plan	2028	\$160,000				Base

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Investment Number	Service Area	Project Type	Long Description	Project Source	Start Year	2012 Planning Level Submitted Capital Costs	Actual Total Project Cost	Commence Construction	AFO	Appendix I Designation
S0244	West	West Treatment Plant	1.1.17.2.2 VFD #2	Management Plan	2028	\$20,000				Base
S0245	West	West Treatment Plant	1.1.17.2.5 Backwash Pump	Management Plan	2028	\$40,000				Base
S0246	West	West Treatment Plant	1.1.17.2.6 Backwash Pump	Management Plan	2028	\$40,000				Base
S0247	West	West Treatment Plant	1.1.17.3.1 Blower #1	Management Plan	2028	\$16,000				Base
S0248	West	West Treatment Plant	1.1.17.3.1 Soft Start #1	Management Plan	2028	\$15,000				Base
S0249	West	West Treatment Plant	1.1.17.3.2 Blower #2	Management Plan	2028	\$16,000				Base
S0250	West	West Treatment Plant	1.1.17.3.2 Soft Start #2	Management Plan	2028	\$15,000				Base
S0251	West	West Treatment Plant	1.1.17.3.3 Blower #3	Management Plan	2028	\$16,000				Base
S0252	West	West Treatment Plant	1.1.17.3.3 Soft Start #3	Management Plan	2028	\$15,000				Base
S0253	All	Collection	On Call Realtor Contract for opinion costs related to easement needs	Management Plan	2028	\$10,000				Base
S0254	All	Vehicles	Replacement Vehicle #509-2021 Construction Pool Vehicle F350 Supercab Duel Wheel	Management Plan	2029	\$35,000				Base
S0255	All	Vehicles	Replacement Vehicle #519-2021 Pickup F-150	Management Plan	2029	\$23,400				Base
S0256	All	Vehicles	Replacement Vehicle #527-2021 4x4 SUV	Management Plan	2029	\$24,300				Base
S0257	All	Vehicles	Replacement Vehicle #539-2021 Pickup 4x4 F-150	Management Plan	2029	\$25,100				Base
S0258	All	Vehicles	Replacement Vehicle #546-2021 Pickup 4x4 F-150	Management Plan	2029	\$26,800				Base
S0259	All	Vehicles	Replacement Vehicle #547-2021 Pickup F-350	Management Plan	2029	\$56,000				Base
S0260	All	Vehicles	Replacement Vehicle #551-2021 Connect Van	Management Plan	2029	\$22,400				Base
S0261	All	Equipment	Replacement Vac Truck #584-2023 Sterling Truck Vac Truck	Management Plan	2029	\$232,000				Base
S0262	All	Lift Station	10-yr lift station pump replacement cycle with 20-yr station rehab/replace cycle built in	Management Plan	2029	\$156,000				Base
S0263	West	Lift Station	Refurbish Bar Screen	Management Plan	2029	\$120,000				Base
S0264	East	East Treatment Plant	1.2.6.1.2 Replace Aeration Tank Pass #1 Air Piping and Diffusers	Management Plan	2029	\$350,000				Base
S0265	East	East Treatment Plant	1.2.6.2.2 Replace Aeration Tank Pass #2 Air Piping and Diffusers	Management Plan	2029	\$350,000				Base
S0266	West	West Treatment Plant	1.1.6.1.2 Replace Aeration Tank Pass #1 Air Piping and Diffusers	Management Plan	2029	\$350,000				Base
S0267	West	West Treatment Plant	1.1.6.2.2 Replace Aeration Tank Pass #2 Air Piping and Diffusers	Management Plan	2029	\$350,000				Base
S0268	West	West Treatment Plant	1.1.6.1.2 Aeration Tank Pass #1 Concrete Repairs	Management Plan	2029	\$40,000				Base
S0269	West	West Treatment Plant	1.1.6.2.2 Aeration Tank Pass #2 Concrete Repairs	Management Plan	2029	\$40,000				Base
S0270	All	Collection	On Call Realtor Contract for opinion costs related to easement needs	Management Plan	2029	\$10,000				Base
S0271	All	Development Relocation	Undistributed Projects for Development required relocation	Management Plan	2029	\$500,000				Base
S0272	All	Equipment	Replacement Dump Truck #520-2022 Construction Pool Truck Sterling Tandem Dump Truck	Management Plan	2030	\$100,000				Base
S0273	All	Vehicles	Replacement Vehicle #552-2018 Sludge Tractor	Management Plan	2030	\$126,000				Base
S0274	All	Vehicles	Replacement Vehicle #505-2022 SUV	Management Plan	2030	\$26,000				Base
S0275	All	Equipment	Sewer Line Rapid Assessment Tool SL-RAT	Management Plan	2030	\$22,000				Base
S0276	All	Lift Station	10-yr lift station pump replacement cycle with 20-yr station rehab/replace cycle built in	Management Plan	2030	\$156,000				Base
S0277	East	East Treatment Plant	1.2.1.10 Rehab Screen and Sensors #1	Management Plan	2030	\$100,000				Base
S0278	East	East Treatment Plant	1.2.1.1 Replace Primary Pre-Aeration Blower #1	Management Plan	2030	\$50,000				Base
S0279	East	East Treatment Plant	1.2.16.1 Plant Water Pump #1	Management Plan	2030	\$50,000				Base
S0280	East	East Treatment Plant	1.2.16.2 Plant Water Pump #2	Management Plan	2030	\$50,000				Base
S0281	East	East Treatment Plant	1.2.19.1 Generator and Transfer Switch	Management Plan	2030	\$300,000				Base
S0282	West	West Treatment Plant	1.1.1 Screening Structure	Management Plan	2030	\$100,000				Base
S0283	West	West Treatment Plant	1.1.2.10 Plant Influent Magmeter	Management Plan	2030	\$160,000				Base
S0284	West	West Treatment Plant	1.1.4.1 Grit Conveyor	Management Plan	2030	\$20,000				Base

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Investment Number	Service Area	Project Type	Long Description	Project Source	Start Year	2012 Planning Level Submitted Capital Costs	Actual Total Project Cost	Commence Construction	AFO	Appendix I Designation
S0285	West	West Treatment Plant	1.1.1.1 Replace Primary Pre-Aeration Blower #1	Management Plan	2030	\$50,000				Base
S0286	West	West Treatment Plant	1.1.3.3 Grinder	Management Plan	2030	\$40,000				Base
S0287	West	West Treatment Plant	1.1.16.1 Plant Water Pump #1	Management Plan	2030	\$30,000				Base
S0288	West	West Treatment Plant	1.1.16.2 Plant Water Pump #2	Management Plan	2030	\$30,000				Base
S0289	West	West Treatment Plant	1.1.19.1 Generator and Transfer Switch	Management Plan	2030	\$300,000				Base
			TOTAL 2016-2030			\$89,737,900				
S0290	All	Vehicles	Replacement Vehicle #525-2023 - Engineering Project Development Manager SUV	Management Plan	2031	\$24,700				Base
S0291	All	Equipment	Replacement Vehicle #502-2027 Construction Backhoe Case 590SM III	Management Plan	2031	\$103,000				Base
S0292	All	Equipment	Replacement Vehicle #503-2027 Construction Backhoe Case 590SM III	Management Plan	2031	\$103,000				Base
S0293	All	Equipment	Replacement Equipment #504-2027 Ditch Witch Mini Excavator	Management Plan	2031	\$70,000				Base
S0294	All	Vehicles	Replacement Vehicle #530-2023 Crew Van	Management Plan	2031	\$36,000				Base
S0295	All	Equipment	Replace Water Planning Generator #571	Management Plan	2031	\$10,000				Base
S0296	All	Equipment	Replace CCTV Camera #571	Management Plan	2031	\$21,000				Base
S0297	All	Equipment	Replace CCTV Reel & Cable #571	Management Plan	2031	\$22,000				Base
S0298	All	Equipment	Replace CCTV Pipe Ranger Tractor #571	Management Plan	2031	\$18,000				Base
S0299	All	Equipment	Replace K-2 Summit CCU/VID CPU #571	Management Plan	2031	\$7,000				Base
S0300	All	Equipment	Replace EnviroSight Pole Cam#1	Management Plan	2031	\$15,000				Base
S0301	All	Lift Station	10-yr lift station pump replacement cycle with 20-yr station rehab/replace cycle built in	Management Plan	2031	\$156,000				Base
S0302	All	Transportation Relocation	Undistributed Projects	Management Plan	2031	\$200,000				Base
S0303	All	STEP	Step Project	Management Plan	2031	\$100,000				Base
S0304	All	Collection	Annual asset management contract	Master Plan	2031	\$50,000				Base
S0305	All	Collection	Annual GIS maintenance contract	Master Plan	2031	\$50,000				Base
S0306	All	Lift Station	Annual SCADA upgrades and Project Programming / Integration required	Master Plan	2031	\$300,000				Base
S0307	All	Collection	On Call Realtor Contract for opinion costs related to easement needs	Management Plan	2031	\$10,000				Base
S0308	All	Development Relocation	Undistributed Projects for Development required relocation	Management Plan	2031	\$500,000				Base
S0309	All	Vehicles	Replacement Vehicle #5xx-2024 - Engineering PM Pool Vehicle 4-Dr Sedan	Management Plan	2032	\$18,600				Base
S0310	All	Equipment	Replacement Dump Truck #521-2024 Construction Pool Sterling Dump Truck	Management Plan	2032	\$77,000				Base
S0311	All	Equipment	Replacement Dump Truck #522-2024 Construction Pool Sterling Tandem Dump Truck	Management Plan	2032	\$88,000				Base
S0312	All	Vehicles	Replacement Vehicle #524-2024 4x4 SUV	Management Plan	2032	\$26,200				Base
S0313	All	Vehicles	Replacement Vehicle #526-2024 SUV	Management Plan	2032	\$35,000				Base
S0314	All	Vehicles	Replacement Vehicle #532-2024 Crew Van	Management Plan	2032	\$36,000				Base
S0315	All	Vehicles	Replacement Vehicle #534-2024 Pickup F-350	Management Plan	2032	\$40,000				Base
S0316	All	Vehicles	Replacement Vehicle #545-2024 Pickup F-250	Management Plan	2032	\$32,000				Base
S0317	All	Equipment	Replacement Dump Truck #577-2024 Dump Truck	Management Plan	2032	\$108,000				Base
S0318	All	Equipment	Replacement Vac Truck #586-2026 Vactor	Management Plan	2032	\$172,000				Base
S0319	All	Equipment	Replace Water Planning Generator #277	Management Plan	2032	\$10,000				Base
S0320	All	Equipment	Replace CCTV Camera #277	Management Plan	2032	\$21,000				Base
S0321	All	Equipment	Replace CCTV Reel & Cable #277	Management Plan	2032	\$22,000				Base

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Investment Number	Service Area	Project Type	Long Description	Project Source	Start Year	2012 Planning Level Submitted Capital Costs	Actual Total Project Cost	Commence Construction	AFO	Appendix I Designation
S0322	All	Equipment	Replace CCTV Pipe Ranger Tractor #277	Management Plan	2032	\$18,000				Base
S0323	All	Equipment	Replace K-2 Summit CCU/VID CPU #277	Management Plan	2032	\$7,000				Base
S0324	All	Equipment	Replace 3D Optical Manhole Scanner	Management Plan	2032	\$180,000				Base
S0325	All	Lift Station	10-yr lift station pump replacement cycle with 20-yr station rehab/replace cycle built in	Management Plan	2032	\$156,000				Base
S0326	All	Transportation Relocation	Undistributed Projects	Management Plan	2032	\$200,000				Base
S0327	East	East Treatment Plant	1.2.8.1.3 Replace Secondary Clarifier Drive #1	Management Plan	2032	\$100,000				Base
S0328	East	East Treatment Plant	1.2.8.2.3 Replace Secondary Clarifier Drive #2	Management Plan	2032	\$100,000				Base
S0329	West	West Treatment Plant	1.1.8.1.3 Replace Secondary Clarifier Drive #1	Management Plan	2032	\$100,000				Base
S0330	West	West Treatment Plant	1.1.8.2.3 Replace Secondary Clarifier Drive #2	Management Plan	2032	\$100,000				Base
S0331	All	Collection	Annual asset management contract	Master Plan	2032	\$50,000				Base
S0332	All	Collection	Annual GIS maintenance contract	Master Plan	2032	\$50,000				Base
S0333	All	Collection	On Call Realtor Contract for opinion costs related to easement needs	Management Plan	2032	\$10,000				Base
S0334	All	Vehicles	Replacement Vehicle #548-2025 - Engineering PM Pool Vehicle SUV	Management Plan	2033	\$24,800				Base
S0335	All	Vehicles	Replacement Vehicle #547-2025 Pickup	Management Plan	2033	\$46,000				Base
S0336	All	Vehicles	Replacement Vehicle #550-2025 4-Dr Sedan	Management Plan	2033	\$25,500				Base
S0337	All	Vehicles	Replacement Vehicle #551-2025 Pickup	Management Plan	2033	\$25,500				Base
S0338	All	Equipment	Sewer Line Rapid Assessment Tool SL-RAT	Management Plan	2033	\$22,000				Base
S0339	All	Lift Station	10-yr lift station pump replacement cycle with 20-yr station rehab/replace cycle built in	Management Plan	2033	\$156,000				Base
S0340	East	Lift Station	Design and Construction of Martins Lane lift station equipment rehabilitation	Management Plan	2033	\$231,000				Base
S0341	East	Lift Station	Design and Construction of Mesker Park lift station equipment rehabilitation	Management Plan	2033	\$171,000				Base
S0342	East	Lift Station	Design and Construction of Riverside and Vann lift station equipment rehabilitation	Management Plan	2033	\$292,000				Base
S0343	East	Lift Station	Design and Construction of Tarry Acres lift station equipment rehabilitation	Management Plan	2033	\$171,000				Base
S0344	West	Lift Station	Design and Construction of USI lift station equipment rehabilitation	Management Plan	2033	\$412,000				Base
S0345	East	Lift Station	Design and Construction of Washington lift station equipment rehabilitation	Management Plan	2033	\$292,000				Base
S0346	East	Lift Station	Design and Construction of Weinbach lift station equipment rehabilitation	Management Plan	2033	\$895,000				Base
S0347	All	Transportation Relocation	Undistributed Projects	Management Plan	2033	\$200,000				Base
S0348	All	Equipment	Replacement Vehicle #501-2030 Construction Backhoe Case 590SM III	Management Plan	2034	\$103,000				Base
S0349	All	Equipment	Replace Planning 32-ISCO Flow Meters	Management Plan	2034	\$140,000				Base
S0350	All	Vehicles	Replacement Vehicle #555-2026 Pickup F-150 XL	Management Plan	2034	\$18,300				Base
S0351	All	Lift Station	10-yr lift station pump replacement cycle with 20-yr station rehab/replace cycle built in	Management Plan	2034	\$156,000				Base
S0352	West	Lift Station	Design and Construction of Schutte Road lift station equipment rehabilitation	Management Plan	2034	\$594,000				Base
S0353	West	Lift Station	Refurbish Bar Screen	Management Plan	2034	\$120,000				Base
S0354	East	East Treatment Plant	1.2.1.10 Rehab Screen and Sensors #1	Management Plan	2034	\$100,000				Base
S0355	East	East Treatment Plant	1.2.3.1 Replace Primary Sludge Pump #1	Management Plan	2034	\$70,000				Base
S0356	East	East Treatment Plant	1.2.3.3 Replace Primary Sludge Grinder #1	Management Plan	2034	\$14,000				Base

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Investment Number	Service Area	Project Type	Long Description	Project Source	Start Year	2012 Planning Level Submitted Capital Costs	Actual Total Project Cost	Commence Construction	AFO	Appendix I Designation
S0357	East	East Treatment Plant	1.2.3.1 Replace Primary Sludge Pump #1	Management Plan	2034	\$70,000				Base
S0358	East	East Treatment Plant	1.2.3.3 Replace Primary Sludge Grinder #1	Management Plan	2034	\$14,000				Base
S0359	East	East Treatment Plant	1.2.6.1.1 Rehabilitate Aeration Tank Pass #1 Concrete	Management Plan	2034	\$40,000				Base
S0360	East	East Treatment Plant	1.2.6.2.1 Rehabilitate Aeration Tank Pass #2 Concrete	Management Plan	2034	\$40,000				Base
S0361	East	East Treatment Plant	1.2.7.1.4 Replace Turbo Centrifugal Blower #1	Management Plan	2034	\$475,000				Base
S0362	East	East Treatment Plant	1.2.7.1.5 Replace Turbo Centrifugal Blower #2	Management Plan	2034	\$475,000				Base
S0363	East	East Treatment Plant	1.2.9.2 Replace Secondary Control Building Roof	Management Plan	2034	\$15,000				Base
S0364	East	East Treatment Plant	1.2.13.2 Dechlorination Building Roof Replacement	Management Plan	2034	\$10,000				Base
S0365	East	East Treatment Plant	1.2.14.6.1 Centrifuge #1	Management Plan	2034	\$750,000				Base
S0366	East	East Treatment Plant	1.2.14.6.2 Centrifuge #2	Management Plan	2034	\$750,000				Base
S0367	East	East Treatment Plant	1.2.14.7.2 Polymer Feed System	Management Plan	2034	\$150,000				Base
S0368	East	East Treatment Plant	1.2.14.7.3 Polymer Feed System	Management Plan	2034	\$150,000				Base
S0369	East	East Treatment Plant	1.2.14.7.5 Polymer Feed System	Management Plan	2034	\$150,000				Base
S0370	East	East Treatment Plant	1.2.14.12.1 Moyno Progressive Cavity Pump #1	Management Plan	2034	\$100,000				Base
S0371	East	East Treatment Plant	1.2.14.12.2 Moyno Progressive Cavity Pump #2	Management Plan	2034	\$100,000				Base
S0372	East	East Treatment Plant	1.2.14.13.1 Moyno RAS Feed Pump #1	Management Plan	2034	\$50,000				Base
S0373	East	East Treatment Plant	1.2.14.13.2 Moyno RAS Feed Pump #2	Management Plan	2034	\$50,000				Base
S0374	East	East Treatment Plant	1.2.14.14.1 Moyno RAS Digester Feed Pump #1	Management Plan	2034	\$50,000				Base
S0375	East	East Treatment Plant	1.2.14.14.2 Moyno RAS Digester Feed Pump #2	Management Plan	2034	\$50,000				Base
S0376	East	East Treatment Plant	1.2.14.15.1 Recycle Centrifuge Pump #1	Management Plan	2034	\$75,000				Base
S0377	East	East Treatment Plant	1.2.14.15.2 Recycle Centrifuge Pump #2	Management Plan	2034	\$75,000				Base
S0378	East	East Treatment Plant	1.2.15.1.2 Digester Cover #1 - Rehab	Management Plan	2034	\$400,000				Base
S0379	East	East Treatment Plant	1.2.15.1.4.1 Digester Mixer	Management Plan	2034	\$1,000,000				Base
S0380	East	East Treatment Plant	1.2.15.2.2 Digester Cover #2 - Replace	Management Plan	2034	\$950,000				Base
S0381	East	East Treatment Plant	1.2.15.2.4.1 Digester Mixer	Management Plan	2034	\$1,000,000				Base
S0382	East	East Treatment Plant	1.2.15.3.2 Digester Cover #3 - Replace	Management Plan	2034	\$950,000				Base
S0383	East	East Treatment Plant	1.2.15.5.9 Primary Sludge Pump #1	Management Plan	2034	\$50,000				Base
S0384	East	East Treatment Plant	1.2.15.5.11 Digester Recirculating Pump #1	Management Plan	2034	\$40,000				Base
S0385	East	East Treatment Plant	1.2.15.5.12 Digester Recirculating Pump #2	Management Plan	2034	\$40,000				Base
S0386	East	East Treatment Plant	1.2.15.5.14 Digester Transfer Pump #1	Management Plan	2034	\$80,000				Base
S0387	East	East Treatment Plant	1.2.15.5.15 Digester Transfer Pump #2	Management Plan	2034	\$80,000				Base
S0388	East	East Treatment Plant	1.2.15.5.17 Digester Transfer Pump #1 to Bld 88	Management Plan	2034	\$40,000				Base
S0389	East	East Treatment Plant	1.2.15.5.20.1 Boiler #1	Management Plan	2034	\$400,000				Base
S0390	East	East Treatment Plant	1.2.15.5.20.2 Boiler #2	Management Plan	2034	\$400,000				Base
S0391	West	West Treatment Plant	1.1.1 Screening Structure	Management Plan	2034	\$500,000				Base
S0392	West	West Treatment Plant	1.1.3 Grit Removal System Rehab	Management Plan	2034	\$160,000				Base
S0393	West	West Treatment Plant	1.1.4.1 Grit Dewatering Unit	Management Plan	2034	\$100,000				Base
S0394	West	West Treatment Plant	1.1.4.2 Grit Screw Conveyor	Management Plan	2034	\$20,000				Base
S0395	West	West Treatment Plant	1.1.4.1 Grit Conveyor	Management Plan	2034	\$20,000				Base
S0396	West	West Treatment Plant	1.1.3.1 Replace Primary Sludge Pump #1	Management Plan	2034	\$60,000				Base
S0397	West	West Treatment Plant	1.1.7.1.4 Replace Turbo Centrifugal Blower #1	Management Plan	2034	\$475,000				Base
S0398	West	West Treatment Plant	1.1.7.1.5 Replace Turbo Centrifugal Blower #2	Management Plan	2034	\$475,000				Base
S0399	West	West Treatment Plant	1.1.15.1.2 Digester Cover #1 - Rehab	Management Plan	2034	\$400,000				Base
S0400	West	West Treatment Plant	1.1.15.1.4.1 Digester Mixer	Management Plan	2034	\$1,000,000				Base
S0401	West	West Treatment Plant	1.1.15.2.2 Digester Cover #2 - Replace	Management Plan	2034	\$950,000				Base

Appendix I: Non-IOCP Capital Investments

A	B	E	H	J	AP	AY	BI	BV	BW	CI
Investment Number	Service Area	Project Type	Long Description	Project Source	Start Year	2012 Planning Level Submitted Capital Costs	Actual Total Project Cost	Commence Construction	AFO	Appendix I Designation
S0402	West	West Treatment Plant	1.1.15.2.4.1 Digester Mixer	Management Plan	2034	\$1,000,000				Base
S0403	West	West Treatment Plant	1.1.15.5.9 Primary Sludge Pump #1	Management Plan	2034	\$50,000				Base
S0404	West	West Treatment Plant	1.1.15.5.11 Digester Recirculating Pump #1	Management Plan	2034	\$40,000				Base
S0405	West	West Treatment Plant	1.1.15.5.12 Digester Recirculating Pump #2	Management Plan	2034	\$40,000				Base
S0406	West	West Treatment Plant	1.1.15.5.14 Digester Transfer Pump #1	Management Plan	2034	\$80,000				Base
S0407	West	West Treatment Plant	1.1.15.5.15 Digester Transfer Pump #2	Management Plan	2034	\$80,000				Base
S0408	West	West Treatment Plant	1.1.15.5.20.1 Boiler #1	Management Plan	2034	\$400,000				Base
S0409	West	West Treatment Plant	1.1.15.5.20.2 Boiler #2	Management Plan	2034	\$400,000				Base
S0410	West	West Treatment Plant	Replace AAON HVAC unit	Management Plan	2035	\$30,000				Base
S0411	All	Vehicles	Replacement Vehicle #571-2027 - Engineering Tech Pool Vehicle E450 Camera Van	Management Plan	2035	\$196,000				Base
S0412	All	Vehicles	Replacement Vehicle #506-2027 Construction Supervisor F-150 Crew Cab	Management Plan	2035	\$40,000				Base
S0413	All	Vehicles	Replacement Vehicle #508-2027 West Plant Manager F-150	Management Plan	2035	\$28,000				Base
S0414	All	Vehicles	Replacement Vehicle #507-2027 Pickup F-150 Crew Cab	Management Plan	2035	\$40,000				Base
S0415	All	Vehicles	Replacement Vehicle #570-2027 CCTV Van	Management Plan	2035	\$152,000				Base
S0416	All	Equipment	Replacement Vac Truck #584-2029 Sterling Truck Vac Truck	Management Plan	2035	\$232,000				Base
S0417	All	Equipment	Replacement Dump Truck #515-2027	Management Plan	2035	\$111,000				Base
S0418	All	Vehicles	Replacement Vehicle #541-2027 F-550 Crane Truck	Management Plan	2035	\$112,000				Base
S0419	All	Lift Station	10-yr lift station pump replacement cycle with 20-yr station rehab/replace cycle built in	Management Plan	2035	\$156,000				Base
S0420	East	Lift Station	Design and Construction of Burkhardt Crossing station replacement	Management Plan	2035	\$402,000				Base
S0421	West	Lift Station	Design and Construction of Tiemann lift station equipment rehabilitation	Management Plan	2035	\$135,000				Base
S0422	West	Lift Station	Design and Construction of Wimborg lift station equipment rehabilitation	Management Plan	2035	\$147,000				Base
S0423	East	East Treatment Plant	1.2.21.2 Admin Building Roof	Management Plan	2035	\$40,000				Base
S0424	East	East Treatment Plant	1.2.21.3 Admin Building HVAC	Management Plan	2035	\$50,000				Base
S0425	West	West Treatment Plant	Engine Room Roof Replacement	Management Plan	2035	\$45,000				Base
S0426	West	West Treatment Plant	1.1.9.2 Replace Secondary Control Building Roof	Management Plan	2035	\$15,000				Base
S0427	West	West Treatment Plant	1.1.13.2 Dechlorination/Maintenance Building Roof Replacement	Management Plan	2035	\$20,000				Base
S0428	West	West Treatment Plant	1.1.21.2 Admin Building Roof	Management Plan	2035	\$25,000				Base
S0429	West	West Treatment Plant	1.1.21.3 Admin Building HVAC	Management Plan	2035	\$35,000				Base
S0430	West	West Treatment Plant	Primary Storage Building	Management Plan	2035	\$15,000				Base
S0431	West	West Treatment Plant	Used Oil Storage Building	Management Plan	2035	\$10,000				Base
S0432	East	East Treatment Plant	Digester Control Building Roof	Management Plan	2035	\$5,000				Base
S0433	East	East Treatment Plant	Digester Control Building Roof	Management Plan	2035	\$10,000				Base
S0434	East	East Treatment Plant	Primary Blower Building Roof	Management Plan	2035	\$10,000				Base
			TOTAL 2016-2035			\$114,949,500				
S0435	All	Equipment	Replacement Vac Truck #585-2030 Sterling Truck Vac Truck	Management Plan	2036	\$332,000				Base
S0436	All	Equipment	Sewer Line Rapid Assessment Tool SL-RAT	Management Plan	2036	\$22,000				Base
S0437	All	Equipment	Replace EnviroSight Pole Cam#1	Management Plan	2036	\$15,000				Base
S0438	East	Lift Station	Design and Construction of Blossom Lane lift station replacement at new location	Management Plan	2036	\$293,000				Base

Appendix I: Non-IOCP Capital Investments

A	B	E	H	J	AP	AY	BI	BV	BW	CI
Investment Number	Service Area	Project Type	Long Description	Project Source	Start Year	2012 Planning Level Submitted Capital Costs	Actual Total Project Cost	Commence Construction	AFO	Appendix I Designation
S0439	All	Lift Station	10-yr lift station pump replacement cycle with 20-yr station rehab/replace cycle built in	Management Plan	2036	\$156,000				Base
S0440	East	Lift Station	Design and Construction of Cross Point lift station equipment rehabilitation	Management Plan	2036	\$594,000				Base
S0441	East	Lift Station	Design and Construction of Eagles lift station equipment rehabilitation	Management Plan	2036	\$545,000				Base
S0442	East	Lift Station	Design and Construction of Eastland Mall lift station equipment rehabilitation	Management Plan	2036	\$171,000				Base
S0443	West	Lift Station	Design and Construction of First Avenue lift station equipment rehabilitation	Management Plan	2036	\$146,000				Base
S0444	East	Lift Station	Design and Construction of Greencove lift station equipment rehabilitation	Management Plan	2036	\$171,000				Base
S0445	East	Lift Station	Design and Construction of Indian Woods lift station replacement	Management Plan	2036	\$269,000				Base
S0446	East	Lift Station	Design and Construction of Junior Warfield lift station equipment rehabilitation	Management Plan	2036	\$292,000				Base
S0447	West	Lift Station	Design and Construction of Key West lift station equipment replacement	Management Plan	2036	\$545,000				Base
S0448	West	Lift Station	Design and Construction of Locust Treet Lane lift station equipment rehabilitation	Management Plan	2036	\$135,000				Base
S0449	West	Lift Station	Design and Construction of North Park lift station equipment rehabilitation	Management Plan	2036	\$147,000				Base
S0450	East	Lift Station	Design and Construction of Oak Grove lift station equipment rehabilitation	Management Plan	2036	\$292,000				Base
S0451	East	Lift Station	Design and Construction of Pine Lake lift station equipment rehabilitation	Management Plan	2036	\$157,000				Base
S0452	East	Lift Station	Design and Construction of Regal Eight lift station equipment rehabilitation	Management Plan	2036	\$135,000				Base
S0453	West	Lift Station	Design and Construction of Tall Timbers lift station equipment rehabilitation	Management Plan	2036	\$231,000				Base
S0454	East	Lift Station	Design and Construction of Twickingham lift station equipment rehabilitation	Management Plan	2036	\$195,000				Base
S0455	East	Lift Station	Design and Construction of Wazny Way lift station equipment rehabilitation	Management Plan	2036	\$201,000				Base
S0456	All	Transportation Relocation	Undistributed Projects	Management Plan	2036	\$200,000				Base
S0457	All	Lift Station	Air Release Valve Replacement Program	Management Plan	2036	\$300,000				Base
S0458	East	East Treatment Plant	1.2.5.1.1 Rehabilitate Aeration Splitter Box Concrete	Management Plan	2036	\$50,000				Base
S0459	East	East Treatment Plant	1.2.7.1.2 Replace Secondary Blower Building Roof	Management Plan	2036	\$20,000				Base
S0460	East	East Treatment Plant	1.2.9.6 Replace RAS Pump #1	Management Plan	2036	\$250,000				Base
S0461	East	East Treatment Plant	1.2.9.7 Replace RAS Pump #2	Management Plan	2036	\$250,000				Base
S0462	East	East Treatment Plant	1.2.14.2 Thickener and Dewatering Building Roof Replacement	Management Plan	2036	\$112,000				Base
S0463	East	East Treatment Plant	1.2.14.15.4 Recycle Centrifuge Pump #4	Management Plan	2036	\$75,000				Base
S0464	East	East Treatment Plant	1.2.18.1 Sludge Building Concrete Repairs	Management Plan	2036	\$100,000				Base
S0465	East	East Treatment Plant	1.2.18.2 Sludge Building Roof	Management Plan	2036	\$300,000				Base
S0466	West	West Treatment Plant	1.1.5.1.1 Rehabilitate Aeration Splitter Box Concrete	Management Plan	2036	\$50,000				Base
S0467	West	West Treatment Plant	1.1.7.1.2 Replace Secondary Blower Building Roof	Management Plan	2036	\$20,000				Base
S0468	West	West Treatment Plant	1.1.9.6 Replace RAS Pump #1	Management Plan	2036	\$300,000				Base

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A	B	E	H	J	AP	AY	BI	BV	BW	CI
Investment Number	Service Area	Project Type	Long Description	Project Source	Start Year	2012 Planning Level Submitted Capital Costs	Actual Total Project Cost	Commence Construction	AFO	Appendix I Designation
S0469	West	West Treatment Plant	1.1.9.7 Replace RAS Pump #2	Management Plan	2036	\$300,000				Base
S0470	West	West Treatment Plant	1.1.14.2 Thickener and Dewatering Building Roof Replacement	Management Plan	2036	\$40,000				Base
S0471	West	West Treatment Plant	1.1.14.7.1 Polymer Feed System	Management Plan	2036	\$150,000				Base
S0472	All	Collection	Annual asset management contract	Master Plan	2036	\$50,000				Base
S0473	All	Collection	Annual GIS maintenance contract	Master Plan	2036	\$50,000				Base
S0474	All	Lift Station	Annual SCADA upgrades and Project Programming / Integration required	Master Plan	2036	\$300,000				Base
S0475	All	Collection	On Call Realtor Contract for opinion costs related to easement needs	Management Plan	2036	\$10,000				Base
S0476	All	Vehicles	Replacement Vehicle #509-2029 Construction Pool Vehicle F350 Supercab Duel Wheel	Management Plan	2037	\$35,000				Base
S0477	All	Vehicles	Replacement Vehicle #519-2029 Pickup F-150	Management Plan	2037	\$23,400				Base
S0478	All	Vehicles	Replacement Vehicle #539-2029 Pickup 4x4 F-150	Management Plan	2037	\$25,100				Base
S0479	All	Vehicles	Replacement Vehicle #540-2029 Pickup 4x4 F-150	Management Plan	2037	\$25,100				Base
S0480	All	Vehicles	Replacement Vehicle #547-2029 Pickup F-350	Management Plan	2037	\$56,000				Base
S0481	All	Vehicles	Replacement Vehicle #551-2029 Connect Van	Management Plan	2037	\$22,400				Base
S0482	All	Vehicles	Replacement Vehicle #544-2029 F-350 Crane Truck	Management Plan	2037	\$112,000				Base
S0483	All	Lift Station	10-yr lift station pump replacement cycle with 20-yr station rehab/replace cycle built in	Management Plan	2037	\$156,000				Base
S0484	East	Lift Station	Design and Construction of Bonnieview and Oak lift station equipment rehabilitation	Management Plan	2037	\$147,000				Base
S0485	West	Lift Station	Design and Construction of Browning Road lift station replacement	Management Plan	2037	\$825,000				Base
S0486	West	Lift Station	Design and Construction of Cardinal Drive lift station replacement	Management Plan	2037	\$269,000				Base
S0487	East	Lift Station	Design and Construction of Carriage House lift station replacement	Management Plan	2037	\$402,000				Base
S0488	East	Lift Station	Design and Construction of Chickasaw lift station equipment rehabilitation	Management Plan	2037	\$201,000				Base
S0489	West	Lift Station	Design and Construction of First Avenue lift station equipment rehabilitation	Management Plan	2037	\$147,000				Base
S0490	East	Lift Station	Design and Construction of Lakeside Manor lift station equipment rehabilitation	Management Plan	2037	\$292,000				Base
S0491	West	Lift Station	Design and Construction of Pfeiffer lift station equipment rehabilitation	Management Plan	2037	\$2,526,000				Base
S0492	East	Lift Station	Design and Construction of Plaza Drive lift station equipment rehabilitation	Management Plan	2037	\$171,000				Base
S0493	West	Lift Station	Design and Construction of Tonia Court lift station replacement	Management Plan	2037	\$342,000				Base
S0494	West	Lift Station	Design and Construction of Wynnfield lift station equipment rehabilitation	Management Plan	2037	\$473,000				Base
S0495	All	Transportation Relocation	Undistributed Projects	Management Plan	2037	\$200,000				Base
S0496	All	STEP	Step Project	Management Plan	2037	\$100,000				Base
S0497	East	East Treatment Plant	1.2.22.1 Paving	Management Plan	2037	\$250,000				Base
S0498	East	East Treatment Plant	1.2.22.2 Fencing	Management Plan	2037	\$125,000				Base
S0499	West	West Treatment Plant	1.1.22.1 Paving	Management Plan	2037	\$250,000				Base
S0500	West	West Treatment Plant	1.1.22.2 Fencing	Management Plan	2037	\$125,000				Base
S0501	All	Collection	Annual asset management contract	Master Plan	2037	\$50,000				Base
S0502	All	Collection	Annual GIS maintenance contract	Master Plan	2037	\$50,000				Base
S0503	All	Lift Station	Annual SCADA upgrades and Project Programming / Integration required	Master Plan	2037	\$300,000				Base
S0504	All	Collection	On Call Realtor Contract for opinion costs related to easement needs	Management Plan	2037	\$10,000				Base
S0505	All	Development Relocation	Undistributed Projects for Development required relocation	Management Plan	2037	\$500,000				Base

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A	B	E	H	J	AP	AY	BI	BV	BW	CI
Investment Number	Service Area	Project Type	Long Description	Project Source	Start Year	2012 Planning Level Submitted Capital Costs	Actual Total Project Cost	Commence Construction	AFO	Appendix I Designation
S0506	All	Equipment	Replacement Vehicle #501-2034 Construction Backhoe Case 590SM III	Management Plan	2038	\$103,000				Base
S0507	All	Equipment	Replacement Dump Truck #520-2030 Construction Pool Truck Sterling Tandem Dump Truck	Management Plan	2038	\$100,000				Base
S0508	All	Equipment	Replacement Vac Truck #586-2032 Vactor	Management Plan	2038	\$172,000				Base
S0509	All	Vehicles	Replacement Vehicle #505-2030 SUV	Management Plan	2038	\$26,000				Base
S0510	All	Equipment	Replacement Equipment Excavator 290	Management Plan	2038	\$238,000				Base
S0511	All	Equipment	Replace CCTV Pipe Ranger Tractor Spare	Management Plan	2038	\$18,000				Base
S0512	West	Lift Station	Design and Construction of Beverly Heights lift station equipment rehabilitation	Management Plan	2038	\$171,000				Base
S0513	All	Lift Station	10-yr lift station pump replacement cycle with 20-yr station rehab/replace cycle built in	Management Plan	2038	\$156,000				Base
S0514	West	Lift Station	Design and Construction of Burdette Park lift station equipment rehabilitation	Management Plan	2038	\$231,000				Base
S0515	East	Lift Station	Design and Construction of Lakeside Terrace lift station replacement	Management Plan	2038	\$303,000				Base
S0516	West	Lift Station	Design and Construction of Millersburg lift station replacement	Management Plan	2038	\$825,000				Base
S0517	East	Lift Station	Design and Construction of Valley Downs lift station replacement	Management Plan	2038	\$463,000				Base
S0518	All	Vehicles	Replacement Vehicle #525-2031 - Engineering Project Development Manager SUV	Management Plan	2039	\$24,700				Base
S0519	All	Equipment	Replacement Equipment #504-2035 Ditch Witch Mini Excavator	Management Plan	2039	\$70,000				Base
S0520	All	Vehicles	Replacement Vehicle #530-2031 Crew Van	Management Plan	2039	\$36,000				Base
S0521	All	Vehicles	Replacement Vehicle #531-2031 Crew Van	Management Plan	2039	\$36,000				Base
S0522	All	Equipment	Replace Water Planning Generator #571	Management Plan	2039	\$10,000				Base
S0523	All	Equipment	Replace CCTV Camera #571	Management Plan	2039	\$21,000				Base
S0524	All	Equipment	Replace CCTV Reel & Cable #571	Management Plan	2039	\$22,000				Base
S0525	All	Equipment	Replace CCTV Pipe Ranger Tractor #571	Management Plan	2039	\$18,000				Base
S0526	All	Equipment	Replace K-2 Summit CCU/VID CPU #571	Management Plan	2039	\$7,000				Base
S0527	All	Lift Station	10-yr lift station pump replacement cycle with 20-yr station rehab/replace cycle built in	Management Plan	2039	\$156,000				Base
S0528	West	Lift Station	Refurbish Bar Screen	Management Plan	2039	\$120,000				Base
S0529	All	Vehicles	Replacement Vehicle #5xx-2032 - Engineering PM Pool Vehicle 4-Dr Sedan	Management Plan	2040	\$18,600				Base
S0530	All	Equipment	Replacement Dump Truck #521-2032 Construction Pool Sterling Dump Truck	Management Plan	2040	\$77,000				Base
S0531	All	Equipment	Replace Planning 32-ISCO Flow Meters	Management Plan	2040	\$140,000				Base
S0532	All	Vehicles	Replacement Vehicle #524-2032 4x4 SUV	Management Plan	2040	\$26,200				Base
S0533	All	Vehicles	Replacement Vehicle #526-2032 SUV	Management Plan	2040	\$35,000				Base
S0534	All	Vehicles	Replacement Vehicle #534-2032 Pickup F-350	Management Plan	2040	\$40,000				Base
S0535	All	Vehicles	Replacement Vehicle #545-2032 Pickup F-250	Management Plan	2040	\$32,000				Base
S0536	All	Equipment	Replacement Dump Truck #577-2032 Dump Truck	Management Plan	2040	\$108,000				Base
S0537	All	Equipment	Replace CCTV Pipe Ranger Tractor #277	Management Plan	2040	\$18,000				Base
S0538	All	Equipment	Replace 3D Optical Manhole Scanner	Management Plan	2040	\$180,000				Base
S0539	All	Lift Station	10-yr lift station pump replacement cycle with 20-yr station rehab/replace cycle built in	Management Plan	2040	\$156,000				Base
S0540	East	East Treatment Plant	1.2.1.10 Rehab Screen and Sensors #1	Management Plan	2040	\$100,000				Base
S0541	East	East Treatment Plant	1.2.1.1 Replace Primary Pre-Aeration Blower #1	Management Plan	2040	\$50,000				Base

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A	B	E	H	J	AP	AY	BI	BV	BW	CI
Investment Number	Service Area	Project Type	Long Description	Project Source	Start Year	2012 Planning Level Submitted Capital Costs	Actual Total Project Cost	Commence Construction	AFO	Appendix I Designation
S0542	East	East Treatment Plant	1.2.16.1 Plant Water Pump #1	Management Plan	2040	\$50,000				Base
S0543	East	East Treatment Plant	1.2.16.2 Plant Water Pump #2	Management Plan	2040	\$50,000				Base
S0544	West	West Treatment Plant	1.1.1 Screening Structure	Management Plan	2040	\$100,000				Base
S0545	West	West Treatment Plant	1.1.4.1 Grit Conveyor	Management Plan	2040	\$20,000				Base
S0546	West	West Treatment Plant	1.1.1.1 Replace Primary Pre-Aeration Blower #1	Management Plan	2040	\$50,000				Base
S0547	West	West Treatment Plant	1.1.3.3 Grinder	Management Plan	2040	\$40,000				Base
S0548	West	West Treatment Plant	1.1.16.1 Plant Water Pump #1	Management Plan	2040	\$30,000				Base
S0549	West	West Treatment Plant	1.1.16.2 Plant Water Pump #2	Management Plan	2040	\$30,000				Base
S0550	All	East Treatment Plant	FOG Engine Generator #3	Management Plan	2040	\$1,500,000				Base
S0551	All	East Treatment Plant	FOG Engine Generator #1	Management Plan	2040	\$1,500,000				Base
S0552	All	East Treatment Plant	FOG Engine Generator #2	Management Plan	2040	\$1,500,000				Base
S0553	West	West Treatment Plant	Digester Control Building Roof	Management Plan	2040	\$20,000				Base
S0554	East	East Treatment Plant	Digester Control Building Roof	Management Plan	2040	\$20,000				Base
			TOTAL 2016-2040			\$140,348,000				
S0555	All	Vehicles	Replacement Vehicle #548-2033 - Engineering PM Pool Vehicle SUV	Management Plan		\$24,800				Reserve
S0556	All	Vehicles	Replacement Vehicle #547-2033 Pickup	Management Plan		\$46,000				Reserve
S0557	All	Vehicles	Replacement Vehicle #550-2033 4-Dr Sedan	Management Plan		\$25,500				Reserve
S0558	All	Vehicles	Replacement Vehicle #551-2033 Pickup	Management Plan		\$25,500				Reserve
S0559	All	Equipment	Replacement Vac Truck #584-2035 Sterling Truck Vac Truck	Management Plan		\$232,000				Reserve
S0560	All	Equipment	Sewer Line Rapid Assessment Tool SL-RAT	Management Plan		\$22,000				Reserve
S0561	All	Equipment	Replace EnviroSight Pole Cam#1	Management Plan		\$15,000				Reserve
S0562	All	Equipment	Replace EnviroSight Pole Cam#2	Management Plan		\$15,000				Reserve
S0563	All	Vehicles	Replacement Vehicle #513-2034 - Engineering Tech Pool Vehicle SUV	Management Plan		\$24,700				Reserve
S0564	All	Equipment	Replacement Vehicle #501-2038 Construction Backhoe Case 590SM III	Management Plan		\$103,000				Reserve
S0565	All	Vehicles	Replacement Vehicle #552-2030 Sludge Tractor	Management Plan		\$126,000				Reserve
S0566	All	Vehicles	Replacement Vehicle #553-2030 Sludge Tractor	Management Plan		\$126,000				Reserve
S0567	All	Vehicles	Replacement Vehicle #555-2034 Pickup F-150 XL	Management Plan		\$18,300				Reserve
S0568	All	Equipment	Replacement Vac Truck #585-2036 Sterling Truck Vac Truck	Management Plan		\$332,000				Reserve
S0569	All	Equipment	Sewer Line Rapid Assessment Tool SL-RAT	Management Plan		\$22,000				Reserve
S0570	All	Equipment	Replace CCTV Camera Spare	Management Plan		\$21,000				Reserve
S0571	All	Equipment	Replace CCTV Pipe Ranger Tractor Spare	Management Plan		\$18,000				Reserve
S0572	All	Equipment	Replace K-2 Summit CCU/VID CPU Spare	Management Plan		\$7,000				Reserve
S0573	All	Vehicles	Replacement Vehicle #571-2035 - Engineering Tech Pool Vehicle E450 Camera Van	Management Plan		\$196,000				Reserve
S0574	All	Equipment	Replacement Vehicle #502-2039 Construction Backhoe Case 590SM III	Management Plan		\$103,000				Reserve
S0575	All	Equipment	Replacement Vehicle #503-2039 Construction Backhoe Case 590SM III	Management Plan		\$103,000				Reserve
S0576	All	Equipment	Replacement Equipment #504-2039 Ditch Witch Mini Excavator	Management Plan		\$70,000				Reserve
S0577	All	Equipment	Replacement Equipment #504-T-2023 Belsh Trailer	Management Plan		\$5,000				Reserve
S0578	All	Vehicles	Replacement Vehicle #506-2035 Construction Supervisor F-150 Crew Cab	Management Plan		\$40,000				Reserve
S0579	All	Vehicles	Replacement Vehicle #508-2035 West Plant Manager F-150	Management Plan		\$28,000				Reserve
S0580	All	Vehicles	Replacement Vehicle #514-2035 Maintenance Supervisor F150 Crew Cab	Management Plan		\$40,000				Reserve
S0581	All	Vehicles	Replacement Vehicle #507-2035 Pickup F-150 Crew Cab	Management Plan		\$40,000				Reserve

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Investment Number	Service Area	Project Type	Long Description	Project Source	Start Year	2012 Planning Level Submitted Capital Costs	Actual Total Project Cost	Commence Construction	AFO	Appendix I Designation
S0582	All	Vehicles	Replacement Vehicle #570-2035 CCTV Van	Management Plan		\$152,000				Reserve
S0583	All	Equipment	Replacement Dump Truck #515-2035	Management Plan		\$111,000				Reserve
S0584	All	Vehicles	Replacement Vehicle #541-2035 F-550 Crane Truck	Management Plan		\$112,000				Reserve
S0585	All	Equipment	Replacement Vac Truck #586-2038 Vactor	Management Plan		\$172,000				Reserve
S0586	All	Vehicles	Replacement Vehicle #509-2037 Construction Pool Vehicle F350 Supercab Duel Wheel	Management Plan		\$35,000				Reserve
S0587	All	Vehicles	Replacement Vehicle #519-2037 Pickup F-150	Management Plan		\$23,400				Reserve
S0588	All	Vehicles	Replacement Vehicle #527-2037 4x4 SUV	Management Plan		\$24,300				Reserve
S0589	All	Vehicles	Replacement Vehicle #529-2037 4x4 SUV	Management Plan		\$30,000				Reserve
S0590	All	Vehicles	Replacement Vehicle #539-2037 Pickup 4x4 F-150	Management Plan		\$25,100				Reserve
S0591	All	Vehicles	Replacement Vehicle #540-2037 Pickup 4x4 F-150	Management Plan		\$25,100				Reserve
S0592	All	Vehicles	Replacement Vehicle #542-2037 Pickup 4x4 F-150	Management Plan		\$25,100				Reserve
S0593	All	Vehicles	Replacement Vehicle #543-2037 Pickup 4x4 F-150	Management Plan		\$25,100				Reserve
S0594	All	Vehicles	Replacement Vehicle #546-2037 Pickup 4x4 F-150	Management Plan		\$26,800				Reserve
S0595	All	Vehicles	Replacement Vehicle #547-2037 Pickup F-350	Management Plan		\$56,000				Reserve
S0596	All	Vehicles	Replacement Vehicle #551-2037 Connect Van	Management Plan		\$22,400				Reserve
S0597	All	Equipment	Replacement Vac Truck #587-2039 Vactor	Management Plan		\$264,000				Reserve
S0598	All	Vehicles	Replacement Vehicle #544-2037 F-350 Crane Truck	Management Plan		\$112,000				Reserve
S0599	All	Vehicles	Replacement Vehicle #528-2038 - Deputy Director Utilities Engineering SUV	Management Plan		\$24,700				Reserve
S0600	All	Equipment	Replacement Dump Truck #520-2038 Construction Pool Truck Sterling Tandem Dump Truck	Management Plan		\$100,000				Reserve
S0601	All	Equipment	Replace Planning 32-ISCO Flow Meters	Management Plan		\$140,000				Reserve
S0602	All	Vehicles	Replacement Vehicle #505-2038 SUV	Management Plan		\$26,000				Reserve
S0603	All	Vehicles	Replacement Vehicle #530-2039 Crew Van	Management Plan		\$36,000				Reserve
S0604	All	Vehicles	Replacement Vehicle #531-2039 Crew Van	Management Plan		\$36,000				Reserve
S0605	All	Vehicles	Replacement Vehicle #532-2039 Crew Van	Management Plan		\$36,000				Reserve
S0606	All	Equipment	Replacement Dump Truck #522-2040 Construction Pool Sterling Tandem Dump Truck	Management Plan		\$88,000				Reserve
S0607	All	Equipment	Replacement Dump Truck #523-2040 Construction Pool Sterling Dump Truck	Management Plan		\$70,000				Reserve
S0608	All	Vehicles	Replacement Vehicle #524-2040 4x4 SUV	Management Plan		\$26,200				Reserve
S0609	All	Vehicles	Replacement Vehicle #526-2040 SUV	Management Plan		\$35,000				Reserve
S0610	All	Vehicles	Replacement Vehicle #532-2040 Crew Van	Management Plan		\$36,000				Reserve
S0611	All	Vehicles	Replacement Vehicle #534-2040 Pickup F-350	Management Plan		\$40,000				Reserve
S0612	All	Equipment	Replacement Equipment Excavator 290	Management Plan		\$238,000				Reserve
S0613	All	Collection	Annual asset management contract	Master Plan		\$50,000				Reserve
S0614	All	Collection	Annual GIS maintenance contract	Master Plan		\$50,000				Reserve
S0615	West	West Treatment Plant	Design and Construction of a potable water main loop at the west treatment plant	Master Plan		\$250,000				Reserve
S0616	West	West Treatment Plant	Design and Construction of waste activated sludge and return activated sludge piping improvements at the west treatment plant	Master Plan		\$2,712,000				Reserve
S0617	West	West Treatment Plant	Design and Construction for the replacement of 3 return activated sludge pumps at the west plant	Master Plan		\$874,000				Reserve

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Investment Number	Service Area	Project Type	Long Description	Project Source	Start Year	2012 Planning Level Submitted Capital Costs	Actual Total Project Cost	Commence Construction	AFO	Appendix I Designation
S0618	All	Equipment	Replacement Dump Truck #522-2003 Construction Pool Sterling Tandem Dump Truck	Management Plan		\$88,000				Reserve
S0619	All	Equipment	Replacement Dump Truck #523-2006 Construction Pool Sterling Dump Truck	Management Plan		\$70,000				Reserve
S0620	All	Equipment	Replace Envirosight Pole Cam#2	Management Plan		\$15,000				Reserve
S0621	All	Equipment	Replace 3D Optical Manhole Scanner	Management Plan		\$180,000				Reserve
S0622	East	East Treatment Plant	1.2.14.6.4 Centrifuge #4	Management Plan		\$1,500,000				Reserve
S0623	East	East Treatment Plant	1.2.18.1 Sludge Building Concrete Repairs	Management Plan		\$100,000				Reserve
S0624	West	West Treatment Plant	Design and Construction of modifications to the aeration piping at the west treatment plant, phase II	Master Plan		\$1,000,000				Reserve
S0625	West	West Treatment Plant	Design and Construction of modifications to the aeration basin selector at the west treatment plant	Master Plan		\$372,000				Reserve
S0626	All	Collection	Annual asset management contract	Master Plan		\$50,000				Reserve
S0627	All	Collection	Annual GIS maintenance contract	Master Plan		\$50,000				Reserve
S0628	All	Lift Station	Annual SCADA upgrades and Project Programming / Integration required	Master Plan		\$300,000				Reserve
S0629	All	Vehicles	Replacement Vehicle #513-2003 - Engineering Tech Pool Vehicle SUV	Management Plan		\$24,700				Reserve
S0630	West	Lift Station	Design and Construction of Browning Road lift station equipment rehabilitation	Management Plan		\$413,000				Reserve
S0631	West	Lift Station	Design and Construction of Cardinal Drive lift station equipment rehabilitation	Management Plan		\$135,000				Reserve
S0632	East	Lift Station	Design and Construction of Carriage House lift station equipment rehabilitation	Management Plan		\$201,000				Reserve
S0633	East	Lift Station	Design and Construction of Chickasaw lift station replacement	Management Plan		\$402,000				Reserve
S0634	East	Lift Station	Design and Construction of Lakeside Manor lift station replacement	Management Plan		\$583,000				Reserve
S0635	East	Lift Station	Design and Construction of Plaza Drive lift station replacement	Management Plan		\$342,000				Reserve
S0636	All	Transportation Relocation	Undistributed Projects	Management Plan		\$200,000				Reserve
S0637	East	East Treatment Plant	1.2.22.1 Paving	Management Plan		\$250,000				Reserve
S0638	East	East Treatment Plant	1.2.22.2 Fencing	Management Plan		\$125,000				Reserve
S0639	All	Collection	Annual asset management contract	Master Plan		\$50,000				Reserve
S0640	West	Lift Station	Design and Construction of Cantex lift station conversion to submersible pumps at Burdette lift station	Master Plan		\$463,000				Reserve
S0641	All	Collection	Annual GIS maintenance contract	Master Plan		\$50,000				Reserve
S0642	All	Lift Station	Annual SCADA upgrades and Project Programming / Integration required	Master Plan		\$300,000				Reserve
S0643	All	Vehicles	Replacement Vehicle #552-1991 Sludge Tractor	Management Plan		\$126,000				Reserve
S0644	All	Vehicles	Replacement Vehicle #555-2003 Pickup F-150 XL	Management Plan		\$18,300				Reserve
S0645	All	Equipment	Replacement Vac Truck #585-2002 Sterling Truck Vac Truck	Management Plan		\$332,000				Reserve
S0646	All	Equipment	Sewer Line Rapid Assessment Tool SL-RAT	Management Plan		\$22,000				Reserve
S0647	All	Equipment	Replace CCTV Camera Spare	Management Plan		\$21,000				Reserve
S0648	All	Equipment	Replace CCTV Pipe Ranger Tractor Spare	Management Plan		\$18,000				Reserve
S0649	All	Equipment	Replace K-2 Summit CCU/VID CPU Spare	Management Plan		\$7,000				Reserve
S0650	West	Lift Station	Design and Construction of Deerfield lift station equipment rehabilitation	Management Plan		\$594,000				Reserve
S0651	East	Lift Station	Design and Construction of Lakeside Terrace lift station equipment rehabilitation	Management Plan		\$151,000				Reserve

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Investment Number	Service Area	Project Type	Long Description	Project Source	Start Year	2012 Planning Level Submitted Capital Costs	Actual Total Project Cost	Commence Construction	AFO	Appendix I Designation
S0652	West	Lift Station	Design and Construction of Millersburg lift station equipment rehabilitation	Management Plan		\$412,000				Reserve
S0653	West	Lift Station	Design and Construction of University Heights lift station equipment rehabilitation	Management Plan		\$292,000				Reserve
S0654	East	Lift Station	Design and Construction of Valley Downs lift station equipment rehabilitation	Management Plan		\$231,000				Reserve
S0655	East	Lift Station	Relocate Mystic Creek force main to new receiving manhole	Management Plan		\$100,000				Reserve
S0656	All	Transportation Relocation	Undistributed Projects	Management Plan		\$200,000				Reserve
S0657	All	Collection	On Call Realtor Contract for opinion costs related to easement needs	Management Plan		\$10,000				Reserve
S0658	All	Lift Station	Annual SCADA upgrades and Project Programming / Integration required	Master Plan		\$300,000				Reserve
S0659	All	Equipment	Replacement Vehicle #502-2015 Construction Backhoe Case 590SM III	Management Plan		\$103,000				Reserve
S0660	All	Equipment	Replacement Vehicle #503-2015 Construction Backhoe Case 590SM III	Management Plan		\$103,000				Reserve
S0661	All	Vehicles	Replacement Vehicle #508-2011 West Plant Manager F-150	Management Plan		\$28,000				Reserve
S0662	All	Vehicles	Replacement Vehicle #514-2011 Maintenance Supervisor F150 Crew Cab	Management Plan		\$40,000				Reserve
S0663	All	Vehicles	Replacement Vehicle #507-2011 Pickup F-150 Crew Cab	Management Plan		\$40,000				Reserve
S0664	All	Equipment	Additional Dump Truck #515-2019	Management Plan		\$111,000				Reserve
S0665	West	Lift Station	Design and Construction of Daylight South lift station equipment rehabilitation	Management Plan		\$1,077,000				Reserve
S0666	All	Transportation Relocation	Undistributed Projects	Management Plan		\$200,000				Reserve
S0667	All	STEP	Step Project	Management Plan		\$100,000				Reserve
S0668	West	Collection	Vortex installation at the receiving manhole of Millersburg force main at Anchor Industries	Management Plan		\$100,000				Reserve
S0669	All	Collection	On Call Realtor Contract for opinion costs related to easement needs	Management Plan		\$10,000				Reserve
S0670	All	Development Relocation	Undistributed Projects for Development required relocation	Management Plan		\$500,000				Reserve
S0671	All	Equipment	Replacement Vac Truck #586-2014 Vactor	Management Plan		\$172,000				Reserve
S0672	All	Equipment	Sewer Line Rapid Assessment Tool SL-RAT	Management Plan		\$22,000				Reserve
S0673	East	Lift Station	Design and Construction of Burkhardt and Lynch station equipment rehabilitation	Management Plan		\$201,000				Reserve
S0674	West	Lift Station	Design and Construction of Hunters Chase lift station equipment rehabilitation	Management Plan		\$231,000				Reserve
S0675	East	Lift Station	Design and Construction of Keystone lift station equipment rehabilitation	Management Plan		\$292,000				Reserve
S0676	West	Lift Station	Design and Construction of Laubscher Road lift station equipment rehabilitation	Management Plan		\$171,000				Reserve
S0677	East	Lift Station	Design and Construction of Rosebud lift station equipment rehabilitation	Management Plan		\$201,000				Reserve
S0678	East	Lift Station	Design and Construction of Roselawn lift station equipment rehabilitation	Management Plan		\$147,000				Reserve
S0679	West	Lift Station	Design and Construction of Willow Creek lift station equipment rehabilitation	Management Plan		\$352,000				Reserve
S0680	All	Lift Station	Design and Construction of Ray Becker lift station equipment rehabilitation	Management Plan		\$352,000				Reserve
S0681	All	Transportation Relocation	Undistributed Projects	Management Plan		\$200,000				Reserve
S0682	East	East Treatment Plant	1.2.1.11 Rehab Screen and Sensors #2	Management Plan		\$100,000				Reserve
S0683	East	East Treatment Plant	1.2.1.1 Replace Primary Pre-Aeration Blower #2	Management Plan		\$50,000				Reserve

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Investment Number	Service Area	Project Type	Long Description	Project Source	Start Year	2012 Planning Level Submitted Capital Costs	Actual Total Project Cost	Commence Construction	AFO	Appendix I Designation
S0684	East	East Treatment Plant	1.2.16.2 Plant Water Pump #2	Management Plan		\$50,000				Reserve
S0685	East	East Treatment Plant	1.2.16.3 Plant Water Pump #3	Management Plan		\$50,000				Reserve
S0686	West	West Treatment Plant	1.1.1.1 Replace Primary Pre-Aeration Blower #2	Management Plan		\$50,000				Reserve
S0687	West	West Treatment Plant	1.1.16.2 Plant Water Pump #2	Management Plan		\$30,000				Reserve
S0688	West	West Treatment Plant	1.1.16.3 Plant Water Pump #3	Management Plan		\$30,000				Reserve
S0689	All	East Treatment Plant	FOG Engine Generator #3	Management Plan		\$1,500,000				Reserve
S0690	All	Collection	On Call Realtor Contract for opinion costs related to easement needs	Management Plan		\$10,000				Reserve
S0691	All	Vehicles	Replacement Vehicle #527-2013 4x4 SUV	Management Plan		\$24,300				Reserve
S0692	All	Vehicles	Replacement Vehicle #529-2013 4x4 SUV	Management Plan		\$30,000				Reserve
S0693	All	Vehicles	Replacement Vehicle #540-2013 Pickup 4x4 F-150	Management Plan		\$25,100				Reserve
S0694	All	Vehicles	Replacement Vehicle #542-2013 Pickup 4x4 F-150	Management Plan		\$25,100				Reserve
S0695	All	Vehicles	Replacement Vehicle #543-2013 Pickup 4x4 F-150	Management Plan		\$25,100				Reserve
S0696	All	Vehicles	Replacement Vehicle #546-2013 Pickup 4x4 F-150	Management Plan		\$26,800				Reserve
S0697	All	Vehicles	Replacement Vehicle #547-2013 Pickup F-350	Management Plan		\$56,000				Reserve
S0698	All	Equipment	Replace Envirosight Pole Cam#1	Management Plan		\$15,000				Reserve
S0699	All	Equipment	Replace Envirosight Pole Cam#2	Management Plan		\$15,000				Reserve
S0700	East	Lift Station	Design and Construction of Airport lift station resized for load	Management Plan		\$342,000				Reserve
S0701	West	Collection	30" Sanitary Sewer at Kansas Road to eliminate bottleneck	Management Plan		\$405,000				Reserve
S0702	All	Vehicles	Replacement Vehicle #528-2013 - Deputy Director Utilities Engineering SUV	Management Plan		\$24,700				Reserve
S0703	All	Equipment	Replacement Vac Truck #588-2014 Vactor	Management Plan		\$172,000				Reserve
S0704	All	Equipment	Replace CCTV Camera Spare	Management Plan		\$21,000				Reserve
S0705	All	Equipment	Replace CCTV Pipe Ranger Tractor Spare	Management Plan		\$18,000				Reserve
S0706	All	Equipment	Replace K-2 Summit CCU/VID CPU Spare	Management Plan		\$7,000				Reserve
S0707	East	Lift Station	Design and Construction of Charlestown lift station equipment rehabilitation	Management Plan		\$231,000				Reserve
S0708	East	Lift Station	Design and Construction of Enterprise Park lift station equipment rehabilitation	Management Plan		\$201,000				Reserve
S0709	East	Lift Station	Design and Construction of Keystone #7 lift station equipment rehabilitation	Management Plan		\$231,000				Reserve
S0710	East	Lift Station	Design and Construction of Metro Center lift station equipment rehabilitation	Management Plan		\$224,000				Reserve
S0711	West	Lift Station	Design and Construction of Willow Road lift station equipment rehabilitation	Management Plan		\$135,000				Reserve
S0712	All	Transportation Relocation	Undistributed Projects	Management Plan		\$200,000				Reserve
S0713	All	Lift Station	Annual SCADA upgrades and Project Programming / Integration required	Master Plan		\$300,000				Reserve
S0714	All	Equipment	Replacement Vehicle #502-2019 Construction Backhoe Case 590SM III	Management Plan		\$103,000				Reserve
S0715	All	Equipment	Replacement Vehicle #503-2019 Construction Backhoe Case 590SM III	Management Plan		\$103,000				Reserve
S0716	All	Vehicles	Replacement Vehicle #531-2015 Crew Van	Management Plan		\$36,000				Reserve
S0717	All	Vehicles	Replacement Vehicle #532-2015 Crew Van	Management Plan		\$36,000				Reserve
S0718	All	Equipment	Sewer Line Rapid Assessment Tool SL-RAT	Management Plan		\$22,000				Reserve
S0719	East	Collection	Telephone Road sewer extension to serve newly annexed areas	Management Plan		\$253,000				Reserve
S0720	All	Transportation Relocation	Undistributed Projects	Management Plan		\$200,000				Reserve
S0721	All	STEP	Step Project	Management Plan		\$100,000				Reserve
S0722	All	Collection	Annual asset management contract	Master Plan		\$50,000				Reserve

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Investment Number	Service Area	Project Type	Long Description	Project Source	Start Year	2012 Planning Level Submitted Capital Costs	Actual Total Project Cost	Commence Construction	AFO	Appendix I Designation
S0723	All	Collection	Annual GIS maintenance contract	Master Plan		\$50,000				Reserve
S0724	All	Lift Station	Annual SCADA upgrades and Project Programming / Integration required	Master Plan		\$300,000				Reserve
S0725	All	Collection	On Call Realtor Contract for opinion costs related to easement needs	Management Plan		\$10,000				Reserve
S0726	All	Development Relocation	Undistributed Projects for Development required relocation	Management Plan		\$500,000				Reserve
S0727	All	Equipment	Replacement Dump Truck #521-2016 Construction Pool Sterling Dump Truck	Management Plan		\$77,000				Reserve
S0728	All	Equipment	Replacement Dump Truck #522-2016 Construction Pool Sterling Tandem Dump Truck	Management Plan		\$88,000				Reserve
S0729	All	Equipment	Replacement Dump Truck #523-2016 Construction Pool Sterling Dump Truck	Management Plan		\$70,000				Reserve
S0730	All	Vehicles	Replacement Vehicle #532-2016 Crew Van	Management Plan		\$36,000				Reserve
S0731	All	Equipment	Replacement Vac Truck #585-2018 Sterling Truck Vac Truck	Management Plan		\$332,000				Reserve
S0732	All	Equipment	Sewer Line Rapid Assessment Tool SL-RAT	Management Plan		\$22,000				Reserve
S0733	All	Equipment	Replace Water Planning Generator #277	Management Plan		\$10,000				Reserve
S0734	All	Equipment	Replace CCTV Camera #277	Management Plan		\$21,000				Reserve
S0735	All	Equipment	Replace CCTV Reel & Cable #277	Management Plan		\$22,000				Reserve
S0736	All	Equipment	Replace CCTV Pipe Ranger Tractor #277	Management Plan		\$18,000				Reserve
S0737	All	Equipment	Replace K-2 Summit CCU/VID CPU #277	Management Plan		\$7,000				Reserve
S0738	All	Equipment	Replace 3D Optical Manhole Scanner	Management Plan		\$180,000				Reserve
S0739	West	Lift Station	Design and Construction of Farmington lift station equipment rehabilitation	Management Plan		\$231,000				Reserve
S0740	East	Lift Station	Design and Construction of Greenriver and Pollack lift station equipment rehabilitation	Management Plan		\$171,000				Reserve
S0741	West	Lift Station	Design and Construction of Leisure Living lift station equipment rehabilitation	Management Plan		\$231,000				Reserve
S0742	West	Lift Station	Design and Construction of University Parkway lift station equipment rehabilitation	Management Plan		\$231,000				Reserve
S0743	All	Transportation Relocation	Undistributed Projects	Management Plan		\$200,000				Reserve
S0744	East	East Treatment Plant	1.2.9.13 Replace RAS Pump #8	Management Plan		\$250,000				Reserve
S0745	East	East Treatment Plant	1.2.9.14 Replace RAS Pump #9	Management Plan		\$250,000				Reserve
S0746	West	West Treatment Plant	1.1.9.14 Replace RAS Pump #9	Management Plan		\$300,000				Reserve
S0747	All	Collection	Annual asset management contract	Master Plan		\$50,000				Reserve
S0748	All	Collection	Annual GIS maintenance contract	Master Plan		\$50,000				Reserve
S0749	All	Lift Station	Annual SCADA upgrades and Project Programming / Integration required	Master Plan		\$300,000				Reserve
S0750	All	Collection	On Call Realtor Contract for opinion costs related to easement needs	Management Plan		\$10,000				Reserve
S0751	All	Vehicles	Replacement Vehicle #548-2000 - Engineering PM Pool Vehicle SUV	Management Plan		\$24,800				Reserve
S0752	All	Vehicles	Replacement Vehicle #547-2017 Pickup	Management Plan		\$46,000				Reserve
S0753	All	Vehicles	Replacement Vehicle #551-2017 Pickup	Management Plan		\$25,500				Reserve
S0754	All	Transportation Relocation	Undistributed Projects	Management Plan		\$200,000				Reserve
S0755	All	STEP	Step Project	Management Plan		\$100,000				Reserve
S0756	East	East Treatment Plant	1.2.1.7 Replace Influent Pump #2	Management Plan		\$200,000				Reserve
S0757	East	East Treatment Plant	1.2.1.8 Replace Influent Pump #3	Management Plan		\$200,000				Reserve
S0758	East	East Treatment Plant	1.2.1.9 Replace Influent Pump #4	Management Plan		\$200,000				Reserve
S0759	East	East Treatment Plant	1.2.1.11 Replace Screen and Sensors #2	Management Plan		\$500,000				Reserve
S0760	East	East Treatment Plant	1.2.1.13 Replace Screenings Washer #2	Management Plan		\$70,000				Reserve

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Investment Number	Service Area	Project Type	Long Description	Project Source	Start Year	2012 Planning Level Submitted Capital Costs	Actual Total Project Cost	Commence Construction	AFO	Appendix I Designation
S0761	East	East Treatment Plant	1.2.1.15 Replace Vortex Grit Removal System #2	Management Plan		\$90,000				Reserve
S0762	East	East Treatment Plant	1.2.1.17 Replace Grit Classifier #2	Management Plan		\$100,000				Reserve
S0763	East	East Treatment Plant	1.2.4.3 Rehabilitate Primary Clarifier #3, Drive, Sprockets, Chains, and concrete restoration	Management Plan		\$230,000				Reserve
S0764	East	East Treatment Plant	1.2.4.4 Rehabilitate Primary Clarifier #4, Drive, Sprockets, Chains, and concrete restoration	Management Plan		\$230,000				Reserve
S0765	East	East Treatment Plant	1.2.4.5 Rehabilitate Primary Clarifier #5, Drive, Sprockets, Chains, and concrete restoration	Management Plan		\$230,000				Reserve
S0766	East	East Treatment Plant	1.2.4.6 Rehabilitate Primary Clarifier #6, Drive, Sprockets, Chains, and concrete restoration	Management Plan		\$230,000				Reserve
S0767	East	East Treatment Plant	1.2.4.7 Rehabilitate Primary Clarifier #7, Drive, Sprockets, Chains, and concrete restoration	Management Plan		\$230,000				Reserve
S0768	East	East Treatment Plant	1.2.14.19 Gravity Belt Thickener #2	Management Plan		\$350,000				Reserve
S0769	West	West Treatment Plant	1.1.2.2 Raw Sewage Pump #2 - Gas Engine	Management Plan		\$550,000				Reserve
S0770	West	West Treatment Plant	1.1.2.2.1 Suction Valve	Management Plan		\$50,000				Reserve
S0771	West	West Treatment Plant	1.1.2.2.2 Discharge Valve	Management Plan		\$50,000				Reserve
S0772	West	West Treatment Plant	1.1.2.2.3 Check Valve	Management Plan		\$72,000				Reserve
S0773	West	West Treatment Plant	1.1.2.3 Raw Sewage Pump #3 - Electric	Management Plan		\$360,000				Reserve
S0774	West	West Treatment Plant	1.1.2.3.1 Suction Valve	Management Plan		\$50,000				Reserve
S0775	West	West Treatment Plant	1.1.2.3.2 Discharge Valve	Management Plan		\$50,000				Reserve
S0776	West	West Treatment Plant	1.1.2.3.3 Check Valve	Management Plan		\$72,000				Reserve
S0777	West	West Treatment Plant	1.1.2.4 Plant Effluent #1 - Electric	Management Plan		\$360,000				Reserve
S0778	West	West Treatment Plant	1.1.2.4.1 Suction Valve	Management Plan		\$50,000				Reserve
S0779	West	West Treatment Plant	1.1.2.4.2 Discharge Valve	Management Plan		\$50,000				Reserve
S0780	West	West Treatment Plant	1.1.2.4.3 Check Valve	Management Plan		\$72,000				Reserve
S0781	West	West Treatment Plant	1.1.2.6 Plant Effluent #3 - Electric	Management Plan		\$360,000				Reserve
S0782	West	West Treatment Plant	1.1.2.6.1 Suction Valve	Management Plan		\$50,000				Reserve
S0783	West	West Treatment Plant	1.1.2.6.2 Discharge Valve	Management Plan		\$50,000				Reserve
S0784	West	West Treatment Plant	1.1.2.6.3 Check Valve	Management Plan		\$72,000				Reserve
S0785	West	West Treatment Plant	1.1.4.3 Rehabilitate Primary Clarifier #3, Drive, Sprockets, Chains, and concrete restoration	Management Plan		\$230,000				Reserve
S0786	West	West Treatment Plant	1.1.4.4 Rehabilitate Primary Clarifier #4, Drive, Sprockets, Chains, and concrete restoration	Management Plan		\$230,000				Reserve
S0787	West	West Treatment Plant	1.1.4.5 Rehabilitate Primary Clarifier #5, Drive, Sprockets, Chains, and concrete restoration	Management Plan		\$230,000				Reserve
S0788	West	West Treatment Plant	1.1.4.6 Rehabilitate Primary Clarifier #6, Drive, Sprockets, Chains, and concrete restoration	Management Plan		\$230,000				Reserve
S0789	West	West Treatment Plant	1.1.4.7 Rehabilitate Primary Clarifier #7, Drive, Sprockets, Chains, and concrete restoration	Management Plan		\$230,000				Reserve
S0790	West	West Treatment Plant	1.1.14.12.2 Moyno Progressive Cavity Pump #2	Management Plan		\$200,000				Reserve
S0791	West	West Treatment Plant	1.1.14.13.2 Moyno WAS Feed Pump #2	Management Plan		\$100,000				Reserve
S0792	West	West Treatment Plant	1.1.14.19 Gravity Belt Thickener #2	Management Plan		\$350,000				Reserve
S0793	All	Collection	Annual asset management contract	Master Plan		\$50,000				Reserve
S0794	All	Collection	Annual GIS maintenance contract	Master Plan		\$50,000				Reserve
S0795	All	Lift Station	Annual SCADA upgrades and Project Programming / Integration required	Master Plan		\$300,000				Reserve

Appendix I: Non-IOCP Capital Investments

A	B	E	H	J	AP	AY	BI	BV	BW	CI
Investment Number	Service Area	Project Type	Long Description	Project Source	Start Year	2012 Planning Level Submitted Capital Costs	Actual Total Project Cost	Commence Construction	AFO	Appendix I Designation
S0796	All	Collection	On Call Realtor Contract for opinion costs related to easement needs	Management Plan		\$10,000				Reserve
S0797	All	Development Relocation	Undistributed Projects for Development required relocation	Management Plan		\$500,000				Reserve
S0798	All	Administrative	Study and preparation of a revised 30-yr sewer master plan	Master Plan		\$300,000				Reserve
S0799	All	Equipment	Replace CCTV Camera Spare	Management Plan		\$21,000				Reserve
S0800	All	Equipment	Replace CCTV Pipe Ranger Tractor Spare	Management Plan		\$18,000				Reserve
S0801	All	Equipment	Replace K-2 Summit CCU/VID CPU Spare	Management Plan		\$7,000				Reserve
S0802	All	Equipment	Replace EnviroSight Pole Cam#2	Management Plan		\$15,000				Reserve
S0803	West	Lift Station	Design and Construction of Spring Valley lift station equipment rehabilitation	Management Plan		\$545,000				Reserve
S0804	All	Equipment	Replacement Vehicle #502-2023 Construction Backhoe Case 590SM III	Management Plan		\$103,000				Reserve
S0805	All	Equipment	Replacement Vehicle #503-2023 Construction Backhoe Case 590SM III	Management Plan		\$103,000				Reserve
S0806	All	Vehicles	Replacement Vehicle #508-2019 West Plant Manager F-150	Management Plan		\$28,000				Reserve
S0807	All	Equipment	Replacement Vac Truck #587-2021 Vactor	Management Plan		\$264,000				Reserve
S0808	All	Equipment	Replacement Vac Truck #588-2022 Vactor	Management Plan		\$172,000				Reserve
S0809	East	Lift Station	Design and Construction of Five Points lift station equipment rehabilitation	Management Plan		\$171,000				Reserve
S0810	West	Lift Station	Design and Construction of PPG lift station equipment rehabilitation	Management Plan		\$1,439,000				Reserve
S0811	East	Lift Station	Design and Construction of Saint James lift station equipment rehabilitation	Management Plan		\$171,000				Reserve
S0812	All	Lift Station	Design and Construction of Lorraine Park lift station equipment rehabilitation	Management Plan		\$835,000				Reserve
S0813	All	Lift Station	Design and Construction of Lorraine Park lift station storage tank rehabilitation	Management Plan		\$600,000				Reserve
S0814	All	Transportation Relocation	Undistributed Projects	Management Plan		\$200,000				Reserve
S0815	East	East Treatment Plant	1.2.9.11 Replace RAS Pump #6	Management Plan		\$250,000				Reserve
S0816	East	East Treatment Plant	1.2.9.18 Replace WAS Pump #3	Management Plan		\$50,000				Reserve
S0817	West	West Treatment Plant	1.1.9.11 Replace RAS Pump #6	Management Plan		\$300,000				Reserve
S0818	West	West Treatment Plant	1.1.9.18 Replace WAS Pump #3	Management Plan		\$50,000				Reserve
S0819	West	West Treatment Plant	1.1.17.2.3 Influent Pump #3	Management Plan		\$160,000				Reserve
S0820	West	West Treatment Plant	1.1.17.2.3 VFD #3	Management Plan		\$20,000				Reserve
S0821	West	West Treatment Plant	1.1.17.2.4 Influent Pump #4	Management Plan		\$160,000				Reserve
S0822	West	West Treatment Plant	1.1.17.2.4 VFD #4	Management Plan		\$20,000				Reserve
S0823	West	West Treatment Plant	1.1.17.3.4 Blower #4	Management Plan		\$16,000				Reserve
S0824	West	West Treatment Plant	1.1.17.3.4 Soft Start #4	Management Plan		\$15,000				Reserve
S0825	West	West Treatment Plant	1.1.17.3.5 Blower #5	Management Plan		\$16,000				Reserve
S0826	West	West Treatment Plant	1.1.17.3.5 Soft Start #5	Management Plan		\$15,000				Reserve
S0827	West	West Treatment Plant	1.1.17.3.6 Blower #6	Management Plan		\$16,000				Reserve
S0828	West	West Treatment Plant	1.1.17.3.6 Soft Start #6	Management Plan		\$15,000				Reserve
S0829	West	West Treatment Plant	1.1.17.3.7 Blower #7	Management Plan		\$16,000				Reserve
S0830	West	West Treatment Plant	1.1.17.3.7 Soft Start #7	Management Plan		\$15,000				Reserve
S0831	All	Collection	Annual asset management contract	Master Plan		\$50,000				Reserve
S0832	All	Collection	Annual GIS maintenance contract	Master Plan		\$50,000				Reserve
S0833	All	Lift Station	Annual SCADA upgrades and Project Programming / Integration required	Master Plan		\$300,000				Reserve
S0834	All	Vehicles	Replacement Vehicle #529-2021 4x4 SUV	Management Plan		\$30,000				Reserve
S0835	All	Vehicles	Replacement Vehicle #540-2021 Pickup 4x4 F-150	Management Plan		\$25,100				Reserve

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A	B	E	H	J	AP	AY	BI	BV	BW	CI
Investment Number	Service Area	Project Type	Long Description	Project Source	Start Year	2012 Planning Level Submitted Capital Costs	Actual Total Project Cost	Commence Construction	AFO	Appendix I Designation
S0836	All	Vehicles	Replacement Vehicle #542-2021 Pickup 4x4 F-150	Management Plan		\$25,100				Reserve
S0837	All	Vehicles	Replacement Vehicle #543-2021 Pickup 4x4 F-150	Management Plan		\$25,100				Reserve
S0838	All	Vehicles	Replacement Vehicle #544-2021 F-350 Crane Truck	Management Plan		\$112,000				Reserve
S0839	All	Equipment	Sewer Line Rapid Assessment Tool SL-RAT	Management Plan		\$22,000				Reserve
S0840	West	Lift Station	Design and Construction of Ashley Place lift station replacement	Management Plan		\$414,000				Reserve
S0841	East	Lift Station	Design and Construction of Harbors Edge lift station equipment rehabilitation	Management Plan		\$201,000				Reserve
S0842	All	Transportation Relocation	Undistributed Projects	Management Plan		\$200,000				Reserve
S0843	All	STEP	Step Project	Management Plan		\$100,000				Reserve
S0844	East	East Treatment Plant	1.2.6.3.2 Replace Aeration Tank Pass #3 Air Piping and Diffusers	Management Plan		\$350,000				Reserve
S0845	West	West Treatment Plant	1.1.6.3.2 Replace Aeration Tank Pass #3 Air Piping and Diffusers	Management Plan		\$350,000				Reserve
S0846	West	West Treatment Plant	1.1.6.3.2 Aeration Tank Pass #3 Concrete Repairs	Management Plan		\$40,000				Reserve
S0847	All	Collection	Annual asset management contract	Master Plan		\$50,000				Reserve
S0848	All	Collection	Annual GIS maintenance contract	Master Plan		\$50,000				Reserve
S0849	All	Lift Station	Annual SCADA upgrades and Project Programming / Integration required	Master Plan		\$300,000				Reserve
S0850	All	Vehicles	Replacement Vehicle #528-2022 - Deputy Director Utilities Engineering SUV	Management Plan		\$24,700				Reserve
S0851	All	Equipment	Replacement Vehicle #501-2026 Construction Backhoe Case 590SM III	Management Plan		\$103,000				Reserve
S0852	All	Vehicles	Replacement Vehicle #553-2018 Sludge Tractor	Management Plan		\$126,000				Reserve
S0853	All	Equipment	Replacement Vac Truck #585-2024 Sterling Truck Vac Truck	Management Plan		\$332,000				Reserve
S0854	All	Equipment	Replace CCTV Camera Spare	Management Plan		\$21,000				Reserve
S0855	All	Equipment	Replace CCTV Pipe Ranger Tractor Spare	Management Plan		\$18,000				Reserve
S0856	All	Equipment	Replace K-2 Summit CCU/VID CPU Spare	Management Plan		\$7,000				Reserve
S0857	All	Transportation Relocation	Undistributed Projects	Management Plan		\$200,000				Reserve
S0858	East	East Treatment Plant	1.2.1.11 Rehab Screen and Sensors #2	Management Plan		\$100,000				Reserve
S0859	East	East Treatment Plant	1.2.1.1 Replace Primary Pre-Aeration Blower #2	Management Plan		\$50,000				Reserve
S0860	East	East Treatment Plant	1.2.16.3 Plant Water Pump #3	Management Plan		\$50,000				Reserve
S0861	West	West Treatment Plant	1.1.1.1 Replace Primary Pre-Aeration Blower #2	Management Plan		\$50,000				Reserve
S0862	West	West Treatment Plant	1.1.16.3 Plant Water Pump #3	Management Plan		\$30,000				Reserve
S0863	All	Collection	Annual asset management contract	Master Plan		\$50,000				Reserve
S0864	All	Collection	Annual GIS maintenance contract	Master Plan		\$50,000				Reserve
S0865	All	Lift Station	Annual SCADA upgrades and Project Programming / Integration required	Master Plan		\$300,000				Reserve
S0866	All	Collection	On Call Realtor Contract for opinion costs related to easement needs	Management Plan		\$10,000				Reserve
S0867	All	Vehicles	Replacement Vehicle #531-2023 Crew Van	Management Plan		\$36,000				Reserve
S0868	All	Vehicles	Replacement Vehicle #532-2023 Crew Van	Management Plan		\$36,000				Reserve
S0869	All	Equipment	Replace Envirosight Pole Cam#2	Management Plan		\$15,000				Reserve
S0870	All	Equipment	Replacement Dump Truck #523-2024 Construction Pool Sterling Dump Truck	Management Plan		\$70,000				Reserve
S0871	All	Equipment	Sewer Line Rapid Assessment Tool SL-RAT	Management Plan		\$22,000				Reserve
S0872	East	East Treatment Plant	1.2.8.3.3 Replace Secondary Clarifier Drive #3	Management Plan		\$100,000				Reserve
S0873	West	West Treatment Plant	1.1.8.3.3 Replace Secondary Clarifier Drive #3	Management Plan		\$100,000				Reserve
S0874	All	Lift Station	Annual SCADA upgrades and Project Programming / Integration required	Master Plan		\$300,000				Reserve
S0875	All	Equipment	Replacement Vac Truck #587-2027 Vactor	Management Plan		\$264,000				Reserve
S0876	All	STEP	Step Project	Management Plan		\$100,000				Reserve
S0877	All	Collection	Annual asset management contract	Master Plan		\$50,000				Reserve

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Investment Number	Service Area	Project Type	Long Description	Project Source	Start Year	2012 Planning Level Submitted Capital Costs	Actual Total Project Cost	Commence Construction	AFO	Appendix I Designation
S0878	All	Collection	Annual GIS maintenance contract	Master Plan		\$50,000				Reserve
S0879	All	Lift Station	Annual SCADA upgrades and Project Programming / Integration required	Master Plan		\$300,000				Reserve
S0880	All	Collection	On Call Realtor Contract for opinion costs related to easement needs	Management Plan		\$10,000				Reserve
S0881	All	Development Relocation	Undistributed Projects for Development required relocation	Management Plan		\$500,000				Reserve
S0882	All	Vehicles	Replacement Vehicle #513-2026 - Engineering Tech Pool Vehicle SUV	Management Plan		\$24,700				Reserve
S0883	All	Equipment	Replacement Vac Truck #588-2028 Vactor	Management Plan		\$172,000				Reserve
S0884	All	Equipment	Replace CCTV Camera Spare	Management Plan		\$21,000				Reserve
S0885	All	Equipment	Replace CCTV Pipe Ranger Tractor Spare	Management Plan		\$18,000				Reserve
S0886	All	Equipment	Replace K-2 Summit CCU/VID CPU Spare	Management Plan		\$7,000				Reserve
S0887	West	Lift Station	Design and Construction of US41 and I-164 lift station equipment rehabilitation	Management Plan		\$231,000				Reserve
S0888	East	Lift Station	Design and Construction of Joan lift station equipment rehabilitation	Management Plan		\$147,000				Reserve
S0889	West	Lift Station	Design and Construction of Oak Meadow #1 lift station equipment rehabilitation	Management Plan		\$412,000				Reserve
S0890	West	Lift Station	Design and Construction of Oak Meadow #2 lift station equipment rehabilitation	Management Plan		\$292,000				Reserve
S0891	All	Transportation Relocation	Undistributed Projects	Management Plan		\$200,000				Reserve
S0892	East	East Treatment Plant	1.2.1.11 Rehab Screen and Sensors #2	Management Plan		\$100,000				Reserve
S0893	East	East Treatment Plant	1.2.3.2 Replace Primary Sludge Pump #2	Management Plan		\$70,000				Reserve
S0894	East	East Treatment Plant	1.2.3.4 Replace Primary Sludge Grinder #2	Management Plan		\$14,000				Reserve
S0895	East	East Treatment Plant	1.2.3.2 Replace Primary Sludge Pump #2	Management Plan		\$70,000				Reserve
S0896	East	East Treatment Plant	1.2.3.4 Replace Primary Sludge Grinder #2	Management Plan		\$14,000				Reserve
S0897	East	East Treatment Plant	1.2.6.3.1 Rehabilitate Aeration Tank Pass #3 Concrete	Management Plan		\$40,000				Reserve
S0898	East	East Treatment Plant	1.2.7.1.6 Replace Turbo Centrifugal Blower #3	Management Plan		\$475,000				Reserve
S0899	East	East Treatment Plant	1.2.14.6.3 Centrifuge #3	Management Plan		\$750,000				Reserve
S0900	East	East Treatment Plant	1.2.14.7.4 Polymer Feed System	Management Plan		\$150,000				Reserve
S0901	East	East Treatment Plant	1.2.14.12.3 Moyno Progressive Cavity Pump #3	Management Plan		\$100,000				Reserve
S0902	East	East Treatment Plant	1.2.14.12.4 Moyno Progressive Cavity Pump #4	Management Plan		\$100,000				Reserve
S0903	East	East Treatment Plant	1.2.14.15.3 Recycle Centrifuge Pump #3	Management Plan		\$75,000				Reserve
S0904	East	East Treatment Plant	1.2.15.3.4.1 Digester Mixer	Management Plan		\$1,000,000				Reserve
S0905	East	East Treatment Plant	1.2.15.4.2 Digester Cover #4 - Replace	Management Plan		\$950,000				Reserve
S0906	East	East Treatment Plant	1.2.15.1.4.1 Digester Mixer	Management Plan		\$1,000,000				Reserve
S0907	East	East Treatment Plant	1.2.15.5.10 Primary Sludge Pump #2	Management Plan		\$50,000				Reserve
S0908	East	East Treatment Plant	1.2.15.5.13 Digester Recirculating Pump #3	Management Plan		\$40,000				Reserve
S0909	East	East Treatment Plant	1.2.15.5.16 Digester Transfer Pump #3	Management Plan		\$80,000				Reserve
S0910	East	East Treatment Plant	1.2.15.5.18 Digester Transfer Pump #2 to Bld 88	Management Plan		\$40,000				Reserve
S0911	East	East Treatment Plant	1.2.15.5.20.3 Boiler #3	Management Plan		\$400,000				Reserve
S0912	West	West Treatment Plant	1.1.3.2 Replace Primary Sludge Pump #2	Management Plan		\$60,000				Reserve
S0913	West	West Treatment Plant	1.1.7.1.6 Replace Turbo Centrifugal Blower #3	Management Plan		\$475,000				Reserve
S0914	West	West Treatment Plant	1.1.15.3.2 Digester Cover #3 - Replace	Management Plan		\$950,000				Reserve
S0915	West	West Treatment Plant	1.1.15.3.4.1 Digester Mixer	Management Plan		\$1,000,000				Reserve
S0916	West	West Treatment Plant	1.1.15.4.2 Digester Cover #4 - Replace	Management Plan		\$950,000				Reserve
S0917	West	West Treatment Plant	1.1.15.1.4.1 Digester Mixer	Management Plan		\$1,000,000				Reserve
S0918	West	West Treatment Plant	1.1.15.5.10 Primary Sludge Pump #2	Management Plan		\$50,000				Reserve
S0919	West	West Treatment Plant	1.1.15.5.13 Digester Recirculating Pump #3	Management Plan		\$40,000				Reserve

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Investment Number	Service Area	Project Type	Long Description	Project Source	Start Year	2012 Planning Level Submitted Capital Costs	Actual Total Project Cost	Commence Construction	AFO	Appendix I Designation
S0920	West	West Treatment Plant	1.1.15.5.16 Digester Transfer Pump #3	Management Plan		\$80,000				Reserve
S0921	West	West Treatment Plant	1.1.15.5.20.3 Boiler #3	Management Plan		\$400,000				Reserve
S0922	All	Collection	Annual asset management contract	Master Plan		\$50,000				Reserve
S0923	All	Collection	Annual GIS maintenance contract	Master Plan		\$50,000				Reserve
S0924	All	Lift Station	Annual SCADA upgrades and Project Programming / Integration required	Master Plan		\$300,000				Reserve
S0925	All	Collection	On Call Realtor Contract for opinion costs related to easement needs	Management Plan		\$10,000				Reserve
S0926	All	Equipment	Replacement Vehicle #502-2031 Construction Backhoe Case 590SM III	Management Plan		\$103,000				Reserve
S0927	All	Equipment	Replacement Vehicle #503-2031 Construction Backhoe Case 590SM III	Management Plan		\$103,000				Reserve
S0928	All	Equipment	Replacement Equipment #504-2031 Ditch Witch Mini Excavator	Management Plan		\$70,000				Reserve
S0929	All	Vehicles	Replacement Vehicle #514-2027 Maintenance Supervisor F150 Crew Cab	Management Plan		\$40,000				Reserve
S0930	All	Equipment	Sewer Line Rapid Assessment Tool SL-RAT	Management Plan		\$22,000				Reserve
S0931	East	Lift Station	Design and Construction of Hicks Drive lift station equipment rehabilitation	Management Plan		\$171,000				Reserve
S0932	East	Lift Station	Design and Construction of Iroquois Gardens lift station equipment rehabilitation	Management Plan		\$171,000				Reserve
S0933	East	Lift Station	Design and Construction of Sandy Acres lift station equipment rehabilitation	Management Plan		\$147,000				Reserve
S0934	All	Transportation Relocation	Undistributed Projects	Management Plan		\$200,000				Reserve
S0935	All	STEP	Step Project	Management Plan		\$100,000				Reserve
S0936	All	Collection	Annual asset management contract	Master Plan		\$50,000				Reserve
S0937	All	Collection	Annual GIS maintenance contract	Master Plan		\$50,000				Reserve
S0938	All	Lift Station	Annual SCADA upgrades and Project Programming / Integration required	Master Plan		\$300,000				Reserve
S0939	All	Collection	On Call Realtor Contract for opinion costs related to easement needs	Management Plan		\$10,000				Reserve
S0940	All	Development Relocation	Undistributed Projects for Development required relocation	Management Plan		\$500,000				Reserve
S0941	All	Administrative	Study and preparation of a revised 30-yr sewer master plan	Master Plan		\$300,000				Reserve
S0942	All	Equipment	Replace EnviroSight Pole Cam#2	Management Plan		\$15,000				Reserve
S0943	East	East Treatment Plant	1.2.9.8 Replace RAS Pump #3	Management Plan		\$250,000				Reserve
S0944	West	West Treatment Plant	1.1.9.8 Replace RAS Pump #3	Management Plan		\$300,000				Reserve
S0945	All	Vehicles	Replacement Vehicle #527-2029 4x4 SUV	Management Plan		\$24,300				Reserve
S0946	All	Vehicles	Replacement Vehicle #529-2029 4x4 SUV	Management Plan		\$30,000				Reserve
S0947	All	Vehicles	Replacement Vehicle #542-2029 Pickup 4x4 F-150	Management Plan		\$25,100				Reserve
S0948	All	Vehicles	Replacement Vehicle #543-2029 Pickup 4x4 F-150	Management Plan		\$25,100				Reserve
S0949	All	Vehicles	Replacement Vehicle #546-2029 Pickup 4x4 F-150	Management Plan		\$26,800				Reserve
S0950	All	Vehicles	Replacement Vehicle #528-2030 - Deputy Director Utilities Engineering SUV	Management Plan		\$24,700				Reserve
S0951	All	Equipment	Sewer Line Rapid Assessment Tool SL-RAT	Management Plan		\$22,000				Reserve
S0952	All	Equipment	Replace CCTV Camera Spare	Management Plan		\$21,000				Reserve
S0953	All	Equipment	Replace K-2 Summit CCU/VID CPU Spare	Management Plan		\$7,000				Reserve
S0954	West	Lift Station	Design and Construction of Deerfield lift station replacement	Management Plan		\$1,187,000				Reserve
S0955	West	Lift Station	Design and Construction of University Heights lift station replacement	Management Plan		\$583,000				Reserve
S0956	All	Transportation Relocation	Undistributed Projects	Management Plan		\$200,000				Reserve
S0957	All	Collection	Annual asset management contract	Master Plan		\$50,000				Reserve
S0958	All	Collection	Annual GIS maintenance contract	Master Plan		\$50,000				Reserve
S0959	All	Lift Station	Annual SCADA upgrades and Project Programming / Integration required	Master Plan		\$300,000				Reserve
S0960	All	Collection	On Call Realtor Contract for opinion costs related to easement needs	Management Plan		\$10,000				Reserve

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Investment Number	Service Area	Project Type	Long Description	Project Source	Start Year	2012 Planning Level Submitted Capital Costs	Actual Total Project Cost	Commence Construction	AFO	Appendix I Designation
S0961	All	Equipment	Replacement Vehicle #502-2035 Construction Backhoe Case 590SM III	Management Plan		\$103,000				Reserve
S0962	All	Equipment	Replacement Vehicle #503-2035 Construction Backhoe Case 590SM III	Management Plan		\$103,000				Reserve
S0963	All	Vehicles	Replacement Vehicle #532-2031 Crew Van	Management Plan		\$36,000				Reserve
S0964	All	Equipment	Replacement Vac Truck #587-2033 Vactor	Management Plan		\$264,000				Reserve
S0965	All	Equipment	Sewer Line Rapid Assessment Tool SL-RAT	Management Plan		\$22,000				Reserve
S0966	West	Lift Station	Design and Construction of Daylight South lift station replacement	Management Plan		\$2,153,000				Reserve
S0967	All	Transportation Relocation	Undistributed Projects	Management Plan		\$200,000				Reserve
S0968	All	STEP	Step Project	Management Plan		\$100,000				Reserve
S0969	All	Collection	Annual asset management contract	Master Plan		\$50,000				Reserve
S0970	All	Collection	Annual GIS maintenance contract	Master Plan		\$50,000				Reserve
S0971	All	Lift Station	Annual SCADA upgrades and Project Programming / Integration required	Master Plan		\$300,000				Reserve
S0972	All	Collection	On Call Realtor Contract for opinion costs related to easement needs	Management Plan		\$10,000				Reserve
S0973	All	Development Relocation	Undistributed Projects for Development required relocation	Management Plan		\$500,000				Reserve
S0974	All	Equipment	Replacement Dump Truck #522-2032 Construction Pool Sterling Tandem Dump Truck	Management Plan		\$88,000				Reserve
S0975	All	Equipment	Replacement Dump Truck #523-2032 Construction Pool Sterling Dump Truck	Management Plan		\$70,000				Reserve
S0976	All	Vehicles	Replacement Vehicle #532-2032 Crew Van	Management Plan		\$36,000				Reserve
S0977	All	Equipment	Replacement Vac Truck #588-2034 Vactor	Management Plan		\$172,000				Reserve
S0978	All	Equipment	Replace Water Planning Generator #277	Management Plan		\$10,000				Reserve
S0979	All	Equipment	Replace CCTV Camera #277	Management Plan		\$21,000				Reserve
S0980	All	Equipment	Replace CCTV Reel & Cable #277	Management Plan		\$22,000				Reserve
S0981	All	Equipment	Replace K-2 Summit CCU/VID CPU #277	Management Plan		\$7,000				Reserve
S0982	East	Lift Station	Design and Construction of Burkhardt and Lynch lift station replacement	Management Plan		\$402,000				Reserve
S0983	East	Lift Station	Design and Construction of Keystone lift station replacement	Management Plan		\$583,000				Reserve
S0984	West	Lift Station	Design and Construction of Laubscher Road lift station replacement	Management Plan		\$342,000				Reserve
S0985	East	Lift Station	Design and Construction of Rosebud lift station replacement	Management Plan		\$402,000				Reserve
S0986	East	Lift Station	Design and Construction of Roselawn lift station replacement	Management Plan		\$293,000				Reserve
S0987	West	Lift Station	Design and Construction of Willow Creek lift station replacement	Management Plan		\$704,000				Reserve
S0988	All	Transportation Relocation	Undistributed Projects	Management Plan		\$200,000				Reserve
S0989	East	East Treatment Plant	1.2.1.11 Rehab Screen and Sensors #2	Management Plan		\$100,000				Reserve
S0990	East	East Treatment Plant	1.2.1.1 Replace Primary Pre-Aeration Blower #2	Management Plan		\$50,000				Reserve
S0991	East	East Treatment Plant	1.2.16.3 Plant Water Pump #3	Management Plan		\$50,000				Reserve
S0992	West	West Treatment Plant	1.1.1.1 Replace Primary Pre-Aeration Blower #2	Management Plan		\$50,000				Reserve
S0993	West	West Treatment Plant	1.1.16.3 Plant Water Pump #3	Management Plan		\$30,000				Reserve
S0994	All	Collection	Annual asset management contract	Master Plan		\$50,000				Reserve
S0995	All	Collection	Annual GIS maintenance contract	Master Plan		\$50,000				Reserve
S0996	All	Lift Station	Annual SCADA upgrades and Project Programming / Integration required	Master Plan		\$300,000				Reserve
S0997	All	Collection	On Call Realtor Contract for opinion costs related to easement needs	Management Plan		\$10,000				Reserve