

**CITY OF BRANDENBURG
WASTEWATER TREATMENT PLANT
PUBLIC-PRIVATE PARTNERSHIP
REQUEST FOR PROPOSALS**

Mandatory Pre-Proposal Meeting and Site Visit

March 16, 2020 10:00 a.m. – 4:00 p.m. Eastern Time

Brandenburg City Hall

737 High Street

Brandenburg, KY 40108

Phone: (270) 422-4981

Proposal Due Dates

April 17, 2020, 3:00 p.m. Eastern Time

Proposal Delivery Address

Brandenburg City Hall

C/O/ Brandenburg WWTP RFP

737 High Street

Brandenburg, KY 40108

Phone: (270) 422-4981

RFP Point of Contact

Mayor Ronnie Joyner

Email: BrandenburgRFP@gmail.com

February 18, 2020

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SECTION I: PROJECT OVERVIEW

1.1. General Request

The City of Brandenburg ("Brandenburg" or "the City") is accepting proposals ("Proposals") to enter into a public-private partnership ("P3") agreement ("P3 Agreement" or "Project") for the following Project components: (1) design and build a new wastewater treatment plant ("WWTP"), demolish and remove the existing WWTP, renovate a pump station, and potentially operate and maintain the plant per the specifications outlined below, (2) finance the Project, or (3) potentially replace approximately 45,000 feet of clay tile piping, potentially maintain the entire wastewater treatment system, or any other innovative proposals to meet Brandenburg's wastewater needs. Respondents ("Respondents" or "Private Partners") may submit Proposals to some or all of these components.

1.2. Project Background

Nucor Corporation is constructing a new \$1.3 Billion steel facility in the same location as Brandenburg's current WWTP. Brandenburg must construct a new WWTP and demolish the old WWTP before Nucor completes construction of its facility. Moreover, Nucor's facility is expected to directly support over 400 jobs with average salaries of approximately \$72,000/year, not including any additional jobs created by businesses supporting the new facility. As such, Brandenburg expects a need for expanded capacity in its new WWTP.

Additionally, the WWTP's primary pump station's electrical equipment is currently located in a 100-year flood plain. Brandenburg requires a solution to protect that equipment.

Finally, Brandenburg is interested in replacing its WWTP's approximately 45,000 feet of clay tile piping with a more sustainable solution.

Brandenburg and Meade County have an interlocal agreement to share the costs associated with this Project.

1.3. Brandenburg's Objectives

1.3.1. Single Point of Accountability: To have the Private Partner provide the City with a single point of contract accountability for design, construction, commissioning and Project performance. The single point of accountability is responsible for providing the City with complete resolutions to design, construction, operations, and maintenance issues that may arise during all phases of Project execution.

1.3.2. Quality Design and Construction: Provide facilities and equipment that will be sustainable and will be in full compliance with state and federal regulations and contractual standards as set herein.

1.3.3. Guaranteed Project Cost: All costs associated with this Project must be fixed and guaranteed over the life of the P3 Agreement.

1.3.4. Streamlined Project Schedule: Complete the design, construction, and performance testing of the WWTP without disrupting Nucor's construction timeline.

1.3.5. Minimizing Risk for Change Orders: Achieve an optimal balance of risk allocation between the City and the Private Partner and manage risks to reduce the likelihood of change orders.

1.3.6. Selection of Qualified Design-Builder: Selection of an experienced Design-Build Private Partner that understands the City's objectives, has experience in the design-build marketplace, and can quickly design and construct the Project to or under budget.

1.3.7. Collaboration with Design Elements: Review and participate with Private Partner's selection of design elements that will minimize overall future operational concerns and maintenance costs.

1.3.8. Innovative Solutions: Select a Private Partner that can develop and implement innovative solutions for accelerated Project scheduling, maximum cost control, improved constructability and minimization of operations and maintenance costs to ensure the Project is completed on time and under budget.

1.4. RFP Shared with Commonwealth Agencies

Copies of this RFP will be submitted to the Commonwealth of Kentucky's Finance and Administration Cabinet and the Department of Local Government in accordance with KRS 65.028(9).

SECTION II: PROJECT SPECIFICATIONS

2.1. Scope of the Project

The City is accepting separate Proposals for (1) the design-build components of the Project, (2) financing the Project, or (3) several optional components. Respondents can respond to some or all of the components of the Project outlined below. Respondents can form their own Private Partner Teams to address these components or, alternatively, the City can accept components from multiple Respondents to form the Private Partner Team. The City reserves the right to accept some components of a Proposal while rejecting others.

2.1.1. Design-Build Components

The City is accepting Proposals addressing the following design-build requirements:

2.1.1.1. Design and build a new WWTP with a design capacity of 0.5 million gallons per day located within the fenced-in portion of the current WWTP site at approximately 38° 0'10.58"N & 86° 8'51.87"W, as depicted in Attachment A (New WWTP Site Map). The new plant must utilize the same discharge pipes and outfall in the Ohio River as the current site as outlined in Attachment B (Discharge Map). The outfall must meet the discharge standards in Attachment C (Preliminary Limits Letter). The City's flow rates for 2019 are attached in Attachment D (2019 Flow Rates).

2.1.1.2. Once the new WWTP is operational, the Private Partner must demolish and remove the existing WWTP from the site in order to provide Nucor with land suitable for construction.

2.1.1.3. The Private Partner must protect the primary pump station's electrical equipment from the risk of flooding. The pump station is located at approximately 38°00'17.0424"N & 86°09'56.57"W. Pictures of the pump station's electrical equipment are included in Attachment E (Pump Station Pictures).

2.1.1.4. Optional: The City will consider Proposals to operate and/or maintain the WWTP. As background, the City has two Public Works employees currently operating the WWTP.

2.1.1.5. Some public financing options, to include Kentucky Infrastructure Authority funds, have conditions that impact project costs and timelines, such as requiring projects comply with American Iron and Steel and Davis-Bacon wage requirements, among other requirements. Respondents should indicate the differences in the Project's costs and timeline if the City were to utilize private financing options instead of public financing options for this Project.

2.1.1.6. The Private Partner will be responsible for paying a 1% administration fee to offset the City's expenses for the professional services associated with this Project at financial closing.

2.1.1.7. The Private Partner must pay for a feasibility study that addresses all requirements in 200 KAR 5:355(2)(2). The City retains final approval authority over which entity conducts the study. The study must be complete within 14 days after negotiations are completed.

2.1.2. Finance Component

The City is accepting Proposals to finance the Project. The City retains the right to substitute its own financing options while accepting the remainder of the Respondent's Proposal.

Brandenburg's collections of sewer payments for 2019 are attached in Attachment F (2019 Sewer Collections).

2.1.3. Optional Components

The City is willing to entertain Proposals that address the following elements:

2.1.3.1. Replacing approximately 45,000 feet of clay tile piping.

2.1.3.2. Maintaining the entire wastewater system.

2.1.3.3. Other innovative solutions to meet the wastewater needs of the City.

2.2. Duties and Responsibilities of the Private Partner

The Private Partner will engage in the following duties and responsibilities, as applicable to the components agreed to by the parties:

2.2.1. Procure any required permits in coordination with the City and meet any other state or federal requirements. The Private Partner shall procure all necessary permits and licenses and abide by all applicable laws, regulations, and ordinances of all Federal, State, and local governments in which work under this contract is performed. The contractor

shall maintain certification of authority to conduct business in the Commonwealth of Kentucky during the term of this contract. Such registration is obtained from the Secretary of State, who will also provide the certification thereof. However, the contractor need not be registered as a prerequisite for responding to the RFP. Additional local registration or license may be required. The contractor shall pay any sales, use, and personal property taxes arising out of this contract and the transaction contemplated hereby. Any other taxes levied upon this contract, the transaction, or the equipment or services delivered pursuant hereto shall be borne by the Private Partner.

2.2.2. Provide performance and payment bonds on the design and construction portions of the agreement as required under KRS 45A.435 and KRS 65.028(5)(b).

2.2.3. Provide maintenance bonds, warranties, guarantees, and letters of credit in connection with the Private Partner's activities in the forms and amounts satisfactory to the City, as required under KRS 65.028(5)(b).

2.2.4. Provide City with access to the Private Partner's personnel, documents, and the Project sites for the purpose of monitoring construction progress and operational and maintenance performance, as agreed to be the parties and required under KRS 65.028(5)(d).

2.2.5. Maintain public liability insurance or self-insurance in a form and amount satisfactory to the City and reasonably sufficient to insure coverage of tort liability to the public and employees and to enable the continued operation of the Project, as required under KRS 65.028(5)(e).

2.2.6. Respond to contractual operational or maintenance requests within an agreed upon time.

2.2.7. Participate in scheduled reviews of the Project's performance with the City and its designees.

2.2.8. Reasonably respond to the City's requests for information on the Project's status.

2.2.9. The Private Partner will be responsible for training the City Public Works employees on any new technology introduced in the Project at no additional cost to the City.

2.3. Methods of Oversight to be Employed by Brandenburg

2.3.1. City employees, representatives, and other designees, to include outside consultants, will monitor the Project's progress and performance.

2.3.2. The City will request information from the Private Partners, inspect the Project sites, and interview personnel as necessary to ensure the Private Partner is meeting its obligations.

2.3.3. The City will hold regularly scheduled reviews of the Project's performance with the Private Partner.

2.4. Duties and Responsibilities of the City

The City will assume the following duties and responsibilities:

2.4.1. Oversee the Project as outlined in Section 2.3.

2.4.2. Coordinate with the Private Partner to apply for and secure any necessary permits or meet any other state or federal requirements.

2.4.3. Reasonably provide information as necessary for the Private Partner to meet its duties and responsibilities in Section 2.2 and the P3 Agreement.

SECTION III: SELECTION AND EVALUATION PROCESS

3.1. Process Overview

Respondents are asked to submit a detailed response to the RFP outlining their Proposal, along with specific information on their experience in operating similar projects and the expected elements of their development team.

It is anticipated that upon receiving the RFP responses, the City's Selection Committee will review submissions and select a set of finalists for competitive negotiations based upon best value, determined by the extent to which those submissions meet the standards and qualifications contained in the Evaluation Criteria. At the conclusion of that process, the Selection Committee will recommend one of the finalists or multiple finalists as the Private Partner(s) for this Project.

3.2. Initial Review

The Selection Committee will conduct an initial review of all submittals received for completeness. Proposals shall be completed in all respects as required by this RFP. A Proposal may be rejected if it is incomplete, contains any alterations or other irregularities of any kind, and will be rejected if any such defect or irregularity can materially affect the quality of the Proposal. Proposals, which contain false or misleading statements, may be rejected. If, in the opinion of the City and Selection Committee, such information was intended to mislead the Selection Committee in its evaluation of the Proposal, and the attribute, condition, or capability is a requirement of this RFP, the Proposal will be rejected. The Selection Committee also reserves the right to waive minor technicalities or irregularities in Proposals if such action is in the City's best interest. Such waiver shall in no way modify the RFP requirements or excuse the Respondent(s) from full compliance with the RFP and applicable law. Statements made by a potential Private Partner shall also be without ambiguity, and with adequate elaboration, where necessary, for clear understanding.

The Respondent, in responding to this RFP, must submit Proposals in the format identified in this RFP. The Proposal must address all requirements of the RFP even if a "no response" is appropriate. Costs for developing Proposals or in connection with any interview or negotiation related to this RFP are entirely the responsibility of the Respondent and shall not be chargeable to the City.

3.3. Evaluation

The City's Selection Committee will evaluate complete submittals based on the evaluation criteria, the small business preference, the reciprocal preference for resident bidders, and the qualified bidder preference, as outlined below. The Selection Committee will then select the

highest ranked Respondents to interview. The City reserves the right to request additional information from Respondents and may elect to visit Respondents' completed projects.

3.4. Selection of Private Partner

Following the interviews, the Selection Committee will recommend to the City the Respondent(s) for competitive negotiations. The City will select the final Proposal(s) that is most advantageous to the City.

3.5. Evaluation Criteria

3.5.1. Criteria for Design-Build Components and Optional Components

The City will rely on the following criteria and corresponding weights to evaluate Proposals addressing the design-build and optional components:

3.5.1.1. Technical Proposal Evaluation

<u>Criteria</u>	<u>Maximum Points Possible</u>
Private Partner Expertise and Experience	150
Technical Proposal/ Work Plan	250
Maximum Points Possible	400

3.5.1.2. Cost Proposal Evaluation

<u>Criteria</u>	<u>Maximum Points Possible</u>
Proposed Cost of Solutions	400
Maximum Points Possible	400

3.5.1.3. Oral Presentation

<u>Criteria</u>	<u>Maximum Points Possible</u>
Presentation	200
Maximum Points Possible	200

3.5.1.4. Total Proposal Evaluation

<u>Criteria</u>	<u>Maximum Points Possible</u>
Technical Proposal	400
Cost Proposal	400
Oral Presentation	200
Maximum Points Possible	1000

3.5.2. Criteria for Financing Component

The City will rely on the following criteria and weight to evaluate Proposals for the financing component:

3.5.2.1. Financial Proposal Evaluation

<u>Criteria</u>	<u>Maximum Points Possible</u>
Financial Terms	1000
Maximum Points Possible	1000

3.6. Small Business Preference

Preference will be given to a plan that includes the involvement of small businesses as subcontractors, to the extent that small businesses can provide services in a competitive manner, unless any preference interferes with the qualification for funds, as required under KRS 65.028(5)(k). Proposals must include a statement explaining the involvement of small businesses in the delivery of the Project or lack thereof.

3.7. Reciprocal Resident Bidder Preference

If the Selection Committee awards the same score to a resident bidder and a nonresident bidder, preference shall be given to the resident bidder, as required under KRS 65.027(2), KRS 45A.490 to 45A.494, and 200 KAR 5:400. Any Respondent claiming resident bidder status shall submit along with its response a notarized affidavit that affirms that it meets the criteria to be considered a resident bidder as set forth in KRS 45A.494(2).

3.8. Qualified Bidder Preference

Preference shall be given to qualified bidders, as required under KRS 45A.470. Any Respondent claiming qualified bidder status shall submit a notarized affidavit that affirms that it meets the criteria.

3.9. No Contract Guaranteed

Brandenburg reserves the right to request necessary modifications, reject all Proposals, reject any Proposal that does not meet any mandatory requirements under this RFP or applicable law, or cancel this process at any time prior to execution of the P3 Agreement, according to the best interests of the City.

3.10. Local Government P3 Board Review

The Commonwealth of Kentucky’s Local Government P3 Board must review and approve any P3 Agreement with a total contractual value that exceeds 30% of Brandenburg’s general fund revenues received in the previous year. The Local Government P3 Board is required to follow the procedures in KRS 65.028(12).

3.11. Legislative Approval Required

A contract will only take effect if approved by the Local Government P3 Board and executed by the Brandenburg City Council.

SECTION IV: SUBMISSION PROCESS

4.1. Proposal Contents

Proposals should be prepared in such a way as to provide a straightforward, concise presentation adequate to satisfy the requirements of this RFP. Emphasis should be concentrated on completeness and clarity. Respondents must sign and submit complete packages including the following in the order indicated to be considered:

1. Cover Letter
2. Private Partner Information
3. Private Partner Team Members
4. Experience and References
5. Financial History
6. Financial Statements
7. Proposal Description
8. Design Elements/Preliminary Architectural Renderings
9. Timeline
10. Budget

4.1.1. Private Partner Information

Include a summary statement highlighting the Respondent's respective key qualifications and experience.

Clearly identify the proposed Private Partner Team members and their respective roles and the individual team members to be dedicated to the Project. Identify the principal point of contact/Project manager who will be authorized to make representations on behalf of the Respondent.

4.1.2. Private Partner Team Members

Identify the Private Partner entity, each member of the Private Partner entity, each member's percentage of ownership of the Private Partner entity, each member's respective roles and responsibilities, mission statements, and the individual who represents each member. Indicate the managing member of the Private Partner, the financial partner, etc.

Provide an organizational chart that illustrates the members of the Private Partner entity.

Identify the person who will represent the Private Partner in meetings with the Public Parties, Shareholders, and the community, and provide description of position within the Private Partner Team.

Identify professional consultants, to the extent they are known at the time of submission, collaborating with the Private Partner Team.

4.1.3. Experience and References

Provide a description of projects that highlight the Private Partner Team's experience in comparable or analogous projects. Selected projects should include photographs to best

communicate the project vision. Please list references familiar with Private Partner's work.

Provide at least three (3) references, within the past five (5) years/seasons, of clients for whom services have been performed that are comparable in quality and scope to that specified in this RFP. The references shall include names, addresses and telephone numbers of the clients for whom the prior work was performed, and include an explanation of the services provided to these clients. Negative references may result in a reduction of points to Proposals.

4.1.4. Financial History

Indicate whether any member of the Private Partner Team or any partnership, joint venture, and/or LLC has ever declared bankruptcy or participated in a restructuring of debt commitments of a distressed property. If applicable, describe the project(s) and circumstance(s).

Include a sworn statement with the following text: "By signing this response to the Request for Proposals, I certify that I am in compliance with all state, federal and local laws and am not delinquent in paying any assessed and unprotested taxes levied by the federal, state or local government." If all members of the Private Partner Team cannot agree to this statement, explain why in a sworn statement.

4.1.5. Financial Statements

Respondents must provide either annual financial statements audited by independent certified public accountants demonstrating a viable going concern, or if not available, other financial statements, demonstrating to the satisfaction of the City, sufficient financial backing and ability to perform the Project.

Respondents must provide bank references for the Private Partner members. It must include name, address, and current telephone number of the given financial institution(s). This should include a signed authorization for release of financial information from each bank listed.

Respondents must disclose and explain any liens or lawsuits that have been filed against them within the past five (5) years.

4.1.6. Proposal Description

Submit a detailed description of how the Private Partner would address the mandatory elements and any optional elements outlined in Section 2.1. Respondents may include alternative Proposals addressing all, some, or none of the optional elements.

4.1.7. Design Elements/Architectural Renderings

Submit a detailed description of the design elements of the Proposal in compliance with Section 2.1. Submit preliminary architectural renderings of the Private Partner's Proposal.

4.1.8. Timeline

Provide a detailed Project timeline. Indicate any differences caused by financing the project with public or private funds.

4.1.9. Budget

Provide a detailed budget that clearly identifies the costs associated with each individual mandatory and optional element the Proposal addresses. Clearly indicate the differences in costs, where applicable, if the project were to be financed with public funds, such as Kentucky Infrastructure Authority funds, or private funds, to include any differences caused by American Iron and Steel and Davis-Bacon requirements.

4.2. Proprietary or Confidential Documents or Trade Secrets

If a Proposal contains documents the Respondent believes are proprietary, confidential or trade secrets, Respondents should identify the exempt information and the basis for such exemption under the Kentucky Open Records Act (KRS 61.870 to KRS 61.884) and submit an additional copy of the Proposal with the confidential or proprietary information redacted.

4.3. Distribution of Responses

In order to be considered for selection, Respondents should submit a complete response to the RFP. One (1) original, ten (ten) copies, and one (1) electronic copy of each response must be submitted. Proposals must be formatted as an 8-1/2" x 11" document, typed and arranged/divided in the sequence as indicated in Section 4.1 to facilitate evaluation. The Respondent shall make no other distribution of the responses.

The Responses should be placed in a sealed envelope or package for submittal marked "Brandenburg WWTP RFP." All responses shall be received and time-stamped in the Brandenburg City Hall no later than 3:00 p.m. (Eastern Time) on April 17, 2020. Proposals received after this time will not be opened.

4.4. Disposition of Proposals

All Proposals become the property of the City. The City reserves the right to use any and all of the ideas presented in any reply to this RFP. The successful Proposal shall be incorporated into the resulting contract by reference. Disposal of unsuccessful Proposals shall be at the discretion of the City.

4.5. Restrictions on Communications

The RFP Point of Contact named on the Cover Sheet shall be the sole point of contact throughout the procurement process. All communications, oral and written (regular, express, or electronic mail, or fax), concerning this procurement shall be addressed to the RFP Point of Contact.

4.6. Anticipated Schedule

The anticipated dates for this Project are as outlined herein. The City may revise these dates as it deems necessary or appropriate.

Issuance of RFP:

February 18, 2020

Mandatory Pre-Proposal Meeting:

March 16, 2020

Final Written Questions Due:	April 3, 2020
Brandenburg's Response to Final Set of Written Questions:	April 10, 2020
Private Partner Proposal Due:	April 17, 2020
Short list of Private Partner Interviews:	April 27-May 1, 2020
Selection of Private Partner:	Week of May 11, 2020

4.7. Mandatory Pre-Proposal Meeting

A mandatory pre-proposal meeting and site visit shall be held to review this RFP. All questions submitted in writing prior to the meeting will be answered at this time in addition to any questions Respondents ask during the pre-proposal meeting. All participants planning on submitting a Proposal addressing the design-build or optional components shall be present at the mandatory pre-proposal meeting that will be held at the Brandenburg City Hall, starting promptly at 10:00 a.m. (ET). Proposals only addressing the financing component are invited but not required to attend the pre-proposal meeting.

4.8. Written Questions Regarding this RFP

Respondents are encouraged to submit written questions to the RFP Point of Contact via email at BrandenburgRFP@gmail.com. No questions shall be accepted after the date listed in Section 4.6 unless the question(s) is considered material to the procurement.

The City shall respond to salient questions in writing on a rolling basis by issuing an addendum to the solicitation. Addenda shall be posted to the City website at <https://brandenburg.ky.gov/Pages/Announcements.aspx>. Respondent agrees that Brandenburg will not be responsible for any oral responses.

4.9. Access to Solicitation, RFP, and Addenda

The City wants each prospective Respondent to have full and complete information on which to base a Proposal response. Respondents should only rely on the written information in this RFP, attachments, and addenda and not on any oral responses. The solicitation, addenda, and attachments shall be posted to Brandenburg's RFP site at <https://brandenburg.ky.gov/Pages/Announcements.aspx>. In the event of any conflict or variation between the solicitation or modification as issued by the City and the Respondent's response, the version as issued shall prevail.

4.10. Acknowledgment of Addenda

It is the Respondent's responsibility to check the web site for any modifications to this solicitation. Respondents are encouraged to acknowledge each addendum by signing and submitting the latest addendum with their response. However, signing the face of the solicitation constitutes the Respondent's acknowledgement of and agreement to be bound by the terms of all addenda issued.

Failure to specifically acknowledge addenda will not excuse the Respondent from adhering to all changes to the requirements of the solicitation set forth therein nor provide justification for any pricing changes.

SECTION V: REQUIRED CONTRACT TERMS

By responding to this RFP, Respondents agree to the following terms in the P3 Agreement:

5.1. Contract Components and Order of Precedence

The City's acceptance of the Private Partner's offer in response to the solicitation, indicated by signing the P3 Agreement, shall create a valid contract between the Parties consisting of the following:

1. Any written Agreement between the Parties;
2. Any Addenda to the RFP;
3. The RFP and all attachments;
4. Procurement Statutes, Regulations, Policies, and Ordinances;
5. Any Best and Final Offer;
6. Any clarifications concerning the Respondent's Proposal in response to the RFP;
7. The Respondent's Proposal in response to the Solicitation.

In the event of any conflict between or among the provisions contained in the contract, the order of precedence shall be as enumerated above.

5.2. Final Agreement

The contract represents the entire agreement between the parties with respect to the subject matter hereof. Prior negotiations, representations, or agreements, either written or oral, between the parties hereto relating to the subject matter hereof shall be of no effect upon this contract.

5.3. Contract Provisions

If any provision of this contract (including items incorporated by reference) is declared or found to be illegal, unenforceable, or void, then both the City and the Private Partner shall be relieved of all obligations arising under such provision. If the remainder of this contract is capable of performance, it shall not be affected by such declaration or finding and shall be fully performed.

5.4. Modifications and Waivers

No modification, change, or waiver of any provision in the contract shall be made, or construed to have been made, unless such modification or waiver is mutually agreed to in writing by the Private Partner and the City, and incorporated as a written amendment to the contract.

Memorandum of understanding, written clarification, and/or correspondence shall not be construed as amendments to the contract.

If the contractor finds at any time that existing conditions made modification of the contract necessary, it shall promptly report such matters to the City for consideration and decision.

5.5. Changes in Scope

The City may, at any time by written order, make changes within the general scope of the contract. No changes in scope are to be conducted except at the approval of the City.

5.6. Contract Conformance

If the City determines that deliverables due under the contract are not in conformance with the terms and conditions of the contract and the mutually agreed-upon Project plan, the City may request the Private Partner to deliver assurances in the form of additional contractor resources and to demonstrate that other major schedules will not be affected. The City shall determine the quantity and quality of such additional resources and failure to comply may constitute default by the Private Partner. The City reserves the right to award any contract to the next highest scoring Respondent, if the successful Respondent does not execute within a specified deadline the contract after selection of a preferred Private Partner.

5.7. Assignment

The contract shall not be assigned in whole or in part without the prior written consent of the City.

5.8. Conformance with Laws and Regulations

This contract is subject to the laws of the Commonwealth of Kentucky and, where applicable, Federal law. Any litigation with respect to this contract shall be brought in state or federal court in Meade County, Kentucky.

0143472.0726398 4815-9485-2277v1

Attachment A

New WWTP Site Map
38° 0'10.58"N
86° 8'51.87"W



Google Earth

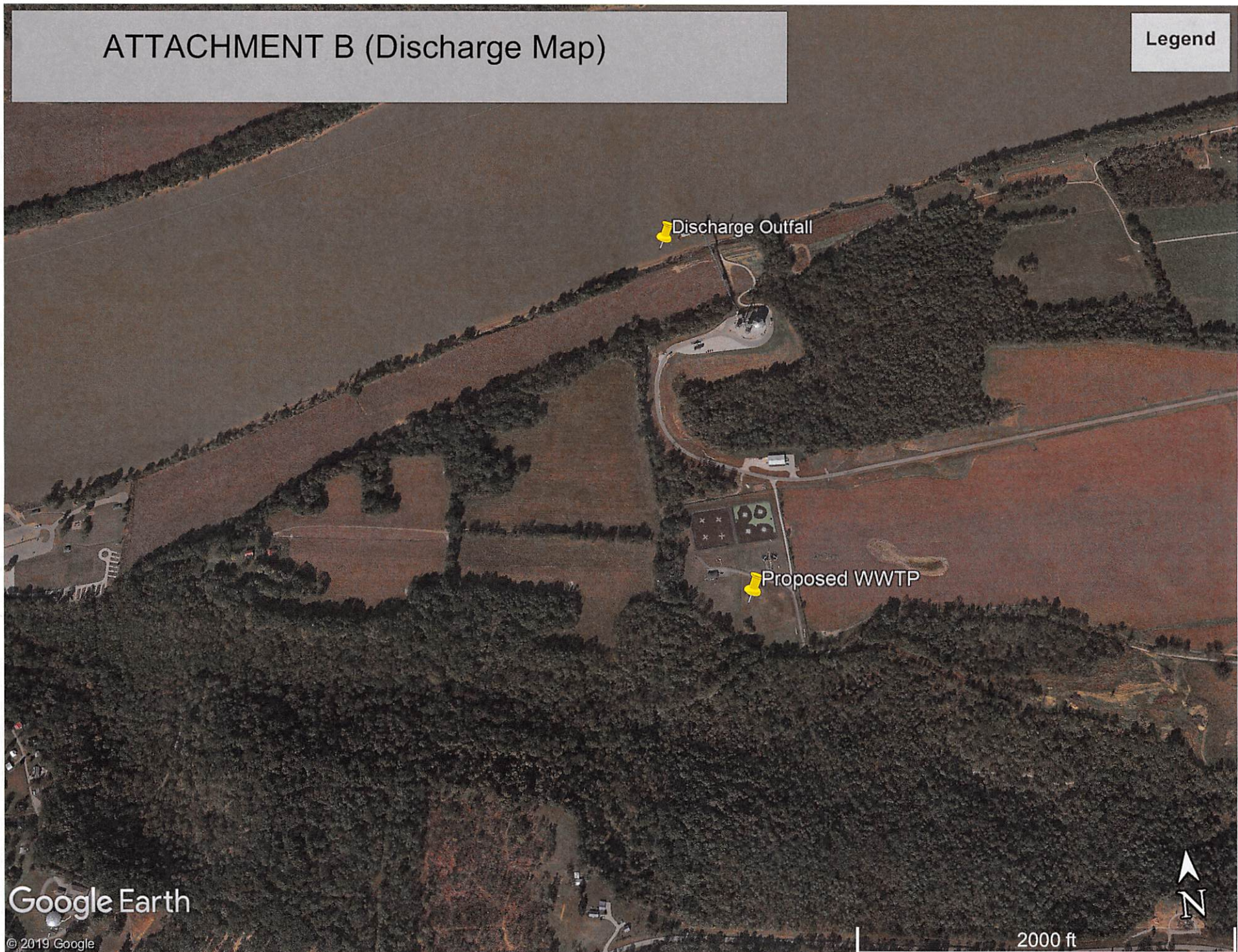
© 2020 Google



700 ft

ATTACHMENT B (Discharge Map)

Legend





ANDY BESHEAR
GOVERNOR

**ENERGY AND ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION**

REBECCA W. GOODMAN
SECRETARY

ANTHONY R. HATTON
COMMISSIONER

300 SOWER BOULEVARD
FRANKFORT, KENTUCKY 40601
TELEPHONE: 502-564-2150
TELEFAX: 502-564-4245

January 23, 2020

Jason Halligan, Attorney at Law
Frost Brown Todd, Attorneys
Lexington Financial Center
250 West Main St., Suite 2800
Lexington, KY 40507

Re: Brandenburg WWTP
Preliminary Permit Limits Request
KPDES Permit No: KY0021474
AI: 3115
Meade County, Kentucky

Dear Mr. Halligan:

This letter is in response to your recent correspondence with the Division of Water (received 1/17/20), requesting preliminary limits for construction of a new wastewater treatment plant, located on the Ohio River (38.009722°, -86.148604°) at r.m.i. 643.2. The proposed new treatment plant will have an increased design capacity of 0.5 MGD, and exist on the same parcel of land as the current plant. It will also discharge at the same point as the current plant.

For the new Brandenburg WWTP, operating at 0.5 MGD, the following limits are applicable:

Pollutant	Summer Limits (mg/l)	Winter Limits (mg/l)
BOD ₅ (Effluent)	30	30
BOD ₅ (Influent)	Monitoring	Monitoring
Total Suspended Solids (Effluent)	30	30
Total Suspended Solids (Influent)	Monitoring	Monitoring
Ammonia, as N	20	20
Dissolved Oxygen	2.0	2.0
Total Phosphorus	Monitoring	Monitoring
Total Nitrogen	Monitoring	Monitoring
pH (min/max)	6.0	9.0
Total Residual Chlorine (if used)	0.011	0.011
Reliability Rating		C

In addition to the above limits, the monthly average and maximum weekly average values of *Escherichia coli* shall be at or below 130 colonies per 100 milliliters or 240 colonies per 100 milliliters, respectively, the year around. If a form of chlorine is proposed to disinfect the wastewater, then de-chlorination will likely be needed to achieve the chlorine residual effluent concentration. Additional effluent limitations and water quality standards are contained in 401 KAR Chapter 5 and 401 KAR Chapter 10.

These preliminary design effluent limitations are valid for one (1) year from the date of this letter, and are subject to change as a result of additional information which may be presented during the public notice phase of the Kentucky Pollutant Discharge Elimination System (KPDES) permitting process. As such, this letter does not convey any authorization or approval to proceed with the construction or operation of the proposed WWTP. Construction and KPDES permit applications must be submitted to request such authorization or approval. Nor does this letter ensure issuance of either permit. During the review processes of these permits the Division of Water will further evaluate the viability of the project.

Should you have any questions regarding this letter, please contact me at (502) 782-6946 or E-mail at matthew.fields@ky.gov.

1/23/2020

X Matthew Fields

Matthew Fields
WLA Coordinator, DOW
Signed by: Matthew Fields

Attachment D (2019 Flow Rates)

<u>January</u>	
Date	Flow
1	0.490
2	0.223
3	0.206
4	0.209
5	0.281
6	0.233
7	0.209
8	0.178
9	0.223
10	0.203
11	0.190
12	0.230
13	0.220
14	0.276
15	0.203
16	0.221
17	0.218
18	0.238
19	0.224
20	0.423
21	0.241
22	0.203
23	0.226
24	0.402
25	0.249
26	0.212
27	0.216
28	0.202
29	0.221
30	0.220
31	0.081
TOTAL	7.371
AVERAGE	0.238

<u>February</u>	
Date	Flow
1	0.341
2	0.227
3	0.234
4	0.234
5	0.221
6	0.227
7	0.313
8	0.486
9	0.205
10	0.311
11	0.607
12	0.669
13	0.362
14	0.367
15	0.308
16	0.302
17	0.264
18	0.235
19	0.342
20	0.246
21	0.574
22	0.288
23	0.239
24	0.451
25	0.293
26	0.230
27	0.234
28	0.244
TOTAL	9.054
AVERAGE	0.323

<u>March</u>	
Date	Flow
1	0.260
2	0.223
3	0.223
4	0.226
5	0.200
6	0.206
7	0.201
8	0.208
9	0.237
10	0.402
11	0.228
12	0.208
13	0.222
14	0.236
15	0.375
16	0.234
17	0.201
18	0.208
19	0.170
20	0.204
21	0.241
22	0.223
23	0.223
24	0.203
25	0.233
26	0.294
27	0.207
28	0.204
29	0.227
30	0.213
31	0.590
TOTAL	7.530
AVERAGE	0.243

<u>April</u>	
Date	Flow
1	0.234
2	0.187
3	0.177
4	0.187
5	0.216
6	0.217
7	0.207
8	0.269
9	0.239
10	0.220
11	0.206
12	0.228
13	0.228
14	0.306
15	0.321
16	0.175
17	0.169
18	0.195
19	0.389
20	0.582
21	0.541
22	0.197
23	0.186
24	0.214
25	0.279
26	0.367
27	0.248
28	0.194
29	0.191
30	0.218
TOTAL	7.587
AVERAGE	0.253

<u>May</u>	
Date	Flow
1	0.234
2	0.203
3	0.242
4	0.364
5	0.272
6	0.210

<u>June</u>	
Date	Flow
1	0.212
2	0.197
3	0.186
4	0.175
5	0.210
6	0.286

<u>July</u>	
Date	Flow
1	0.457
2	0.290
3	0.197
4	0.205
5	0.183
6	0.201

<u>August</u>	
Date	Flow
1	0.200
2	0.220
3	0.230
4	0.205
5	0.194
6	0.173

7	0.212
8	0.217
9	0.225
10	0.230
11	0.210
12	0.236
13	0.200
14	0.206
15	0.205
16	0.229
17	0.232
18	0.245
19	0.228
20	0.233
21	0.196
22	0.222
23	0.239
24	0.225
25	0.208
26	0.203
27	0.455
28	0.258
29	0.219
30	0.384
31	0.323
TOTAL	7.565
AVERAGE	0.244

7	0.255
8	0.334
9	0.557
10	0.518
11	0.233
12	0.199
13	0.211
14	0.189
15	0.203
16	0.217
17	0.514
18	0.431
19	0.322
20	0.262
21	0.229
22	0.299
23	0.343
24	0.311
25	0.360
26	0.193
27	0.160
28	0.153
29	0.191
30	0.178
TOTAL	8.128
AVERAGE	0.271

7	0.172
8	0.246
9	0.175
10	0.184
11	0.225
12	0.189
13	0.184
14	0.194
15	0.209
16	0.203
17	0.269
18	0.286
19	0.221
20	0.257
21	0.239
22	0.262
23	0.314
24	0.206
25	0.180
26	0.191
27	0.215
28	0.209
29	0.227
30	0.247
31	0.225
TOTAL	7.062
AVERAGE	0.228

7	0.541
8	0.532
9	0.241
10	0.208
11	0.201
12	0.245
13	0.312
14	0.244
15	0.219
16	0.209
17	0.224
18	0.197
19	0.240
20	0.236
21	0.262
22	0.299
23	0.250
24	0.209
25	0.297
26	0.371
27	0.282
28	0.240
29	0.215
30	0.218
31	0.242
TOTAL	7.956
AVERAGE	0.257

September	
Date	Flow
1	0.201
2	0.209
3	0.226
4	0.233
5	0.217
6	0.199
7	0.207
8	0.192
9	0.215
10	0.218
11	0.217
12	0.257
13	0.247
14	0.216
15	0.220
16	0.239

October	
Date	Flow
1	0.256
2	0.264
3	0.258
4	0.221
5	0.231
6	0.348
7	0.265
8	0.206
9	0.228
10	0.193
11	0.271
12	0.204
13	0.201
14	0.218
15	0.268
16	0.247

November	
Date	Flow
1	0.271
2	0.273
3	0.223
4	0.220
5	0.199
6	0.237
7	0.291
8	0.208
9	0.184
10	0.184
11	0.212
12	0.185
13	0.185
14	0.196
15	0.185
16	0.183

December	
Date	Flow
1	0.498
2	0.231
3	0.210
4	0.208
5	0.203
6	0.215
7	0.195
8	0.215
9	0.249
10	0.198
11	0.201
12	0.208
13	0.238
14	0.219
15	0.235
16	0.394

17	0.235
18	0.238
19	0.230
20	0.044
21	0.027
22	0.135
23	0.552
24	0.318
25	0.224
26	0.219
27	0.221
28	0.241
29	0.240
30	0.248
TOTAL	6.685
AVERAGE	0.223

17	0.224
18	0.217
19	0.241
20	0.218
21	0.254
22	0.222
23	0.218
24	0.189
25	0.238
26	0.293
27	0.287
28	0.251
29	0.223
30	0.279
31	0.274
TOTAL	7.507
AVERAGE	0.242

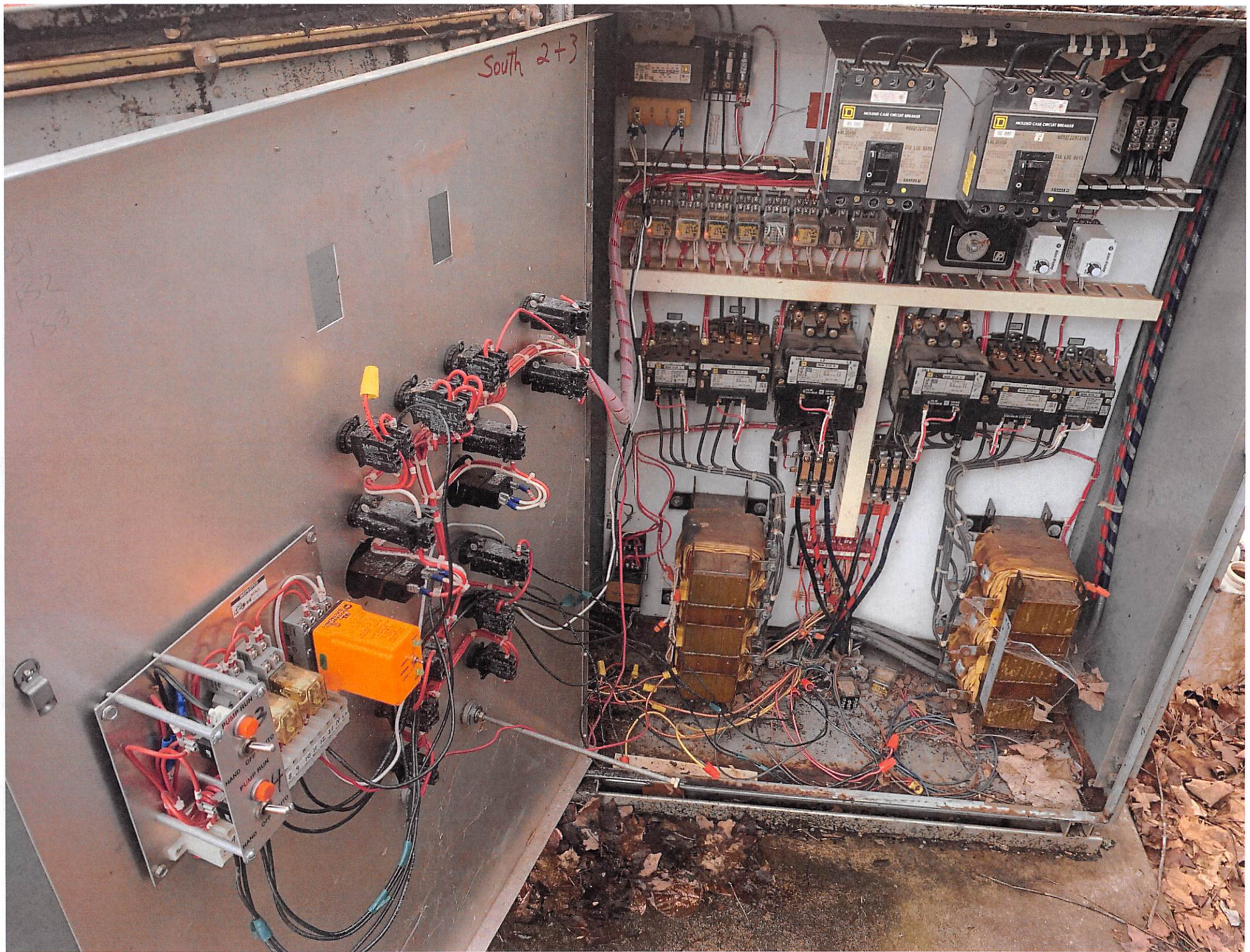
17	0.194
18	0.196
19	0.205
20	0.195
21	0.205
22	0.251
23	0.230
24	0.192
25	0.185
26	0.256
27	0.347
28	0.221
29	0.259
30	0.675
TOTAL	7.047
AVERAGE	0.235

17	0.296
18	0.218
19	0.214
20	0.210
21	0.221
22	0.199
23	0.214
24	0.200
25	0.184
26	0.203
27	0.222
28	0.231
29	0.394
30	0.246
31	0.168
TOTAL	7.337
AVERAGE	0.237

Attachment E
Pump Station Pictures







South 2+3

132
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PUMP RUN
HAND OFF
PUMP RUN
HAND OFF

MOLDED CASE CIRCUIT BREAKER
1
216 LAC 50A

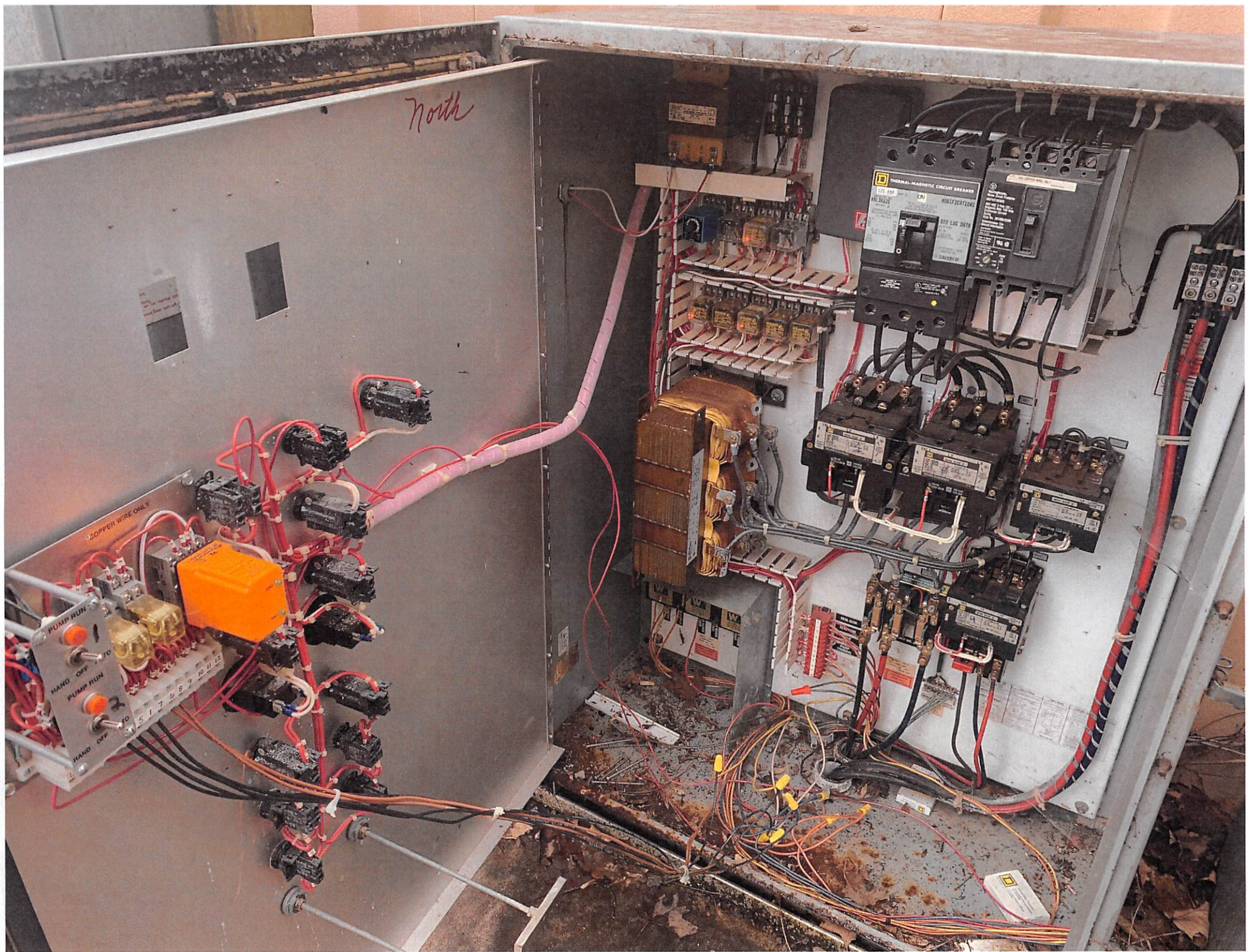
MOLDED CASE CIRCUIT BREAKER
2
216 LAC 50A

MOLDED CASE CIRCUIT BREAKER
3
216 LAC 50A

MOLDED CASE CIRCUIT BREAKER
4
216 LAC 50A

MOLDED CASE CIRCUIT BREAKER
5
216 LAC 50A

MOLDED CASE CIRCUIT BREAKER
6
216 LAC 50A



North

COPPER WIRE ONLY

PUMP RUN
HAND OFF
PUMP RUN
HAND OFF

THERMAL-MAGNETIC CIRCUIT BREAKER

125 AMP

250 VAC

100% RATED

100% RATED

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02/11/20

Accrual Basis

City of Brandenburg - Revenue Fund
Transaction Detail By Account
January 2019

Type	Date	Num	Memo	Cir	Split	Amount	Balance	
Total Charges for Services								
SEWER REVENUE								
Deposit	01/03/2019		Deposit		Meade Co...	2,703.64	2,703.64	
Deposit	01/04/2019		Deposit		Checking -...	620.01	3,323.65	
Deposit	01/07/2019		Deposit		Meade Co...	3,930.96	7,254.61	
Deposit	01/09/2019		Deposit		Meade Co...	3,325.42	10,580.03	
Deposit	01/11/2019		Deposit		Checking -...	960.01	11,540.04	
Deposit	01/11/2019		Deposit		Meade Co...	7,756.41	19,296.45	
Deposit	01/14/2019		Deposit		Meade Co...	6,767.32	26,063.77	
Deposit	01/14/2019		Deposit		Meade Co...	4,014.67	30,078.44	
Deposit	01/16/2019		Deposit		Checking -...	1,752.82	31,831.26	
Deposit	01/16/2019		Deposit		Meade Co...	3,177.34	35,008.60	
Deposit	01/25/2019		Deposit		Checking -...	1,528.98	36,537.58	
Deposit	01/28/2019		Deposit		Meade Co...	2,653.43	39,191.01	
Deposit	01/28/2019		Deposit		Checking -...	628.28	39,819.29	
Deposit	01/28/2019		Deposit		Meade Co...	1,370.26	41,189.55	
Deposit	01/31/2019		Deposit		Checking -...	69.55	41,259.10	
Total SEWER REVENUE						41,259.10	41,259.10	
Total Total Charges for Services						41,259.10	41,259.10	
TOTAL						41,259.10	41,259.10	

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02/11/20

Accrual Basis

City of Brandenburg - Revenue Fund
Transaction Detail By Account
February 2019

Type	Date	Num	Memo	Clr	Split	Amount	Balance
Total Charges for Services							
SEWER REVENUE							
Deposit	02/01/2019		Deposit		Meade Co...	32.77	32.77
Deposit	02/06/2019		Deposit		Meade Co...	2,258.03	2,290.80
Deposit	02/08/2019		Deposit		Checking -...	755.88	3,046.68
Deposit	02/08/2019		Deposit		Meade Co...	2,696.75	5,743.43
Deposit	02/11/2019		Deposit		Meade Co...	4,522.46	10,265.89
Deposit	02/13/2019		Deposit		Meade Co...	3,942.79	14,208.68
Deposit	02/15/2019		Deposit		Checking -...	2,423.19	16,631.87
Deposit	02/15/2019		Deposit		Meade Co...	6,827.34	23,459.21
Deposit	02/15/2019		Deposit		Meade Co...	7,553.80	31,013.01
Deposit	02/19/2019		Deposit		Checking -...	835.96	31,848.97
Deposit	02/20/2019		Deposit		Meade Co...	3,532.70	35,381.67
Deposit	02/26/2019		Deposit		Checking -...	2,148.57	37,530.24
Deposit	02/26/2019		Deposit		Meade Co...	1,867.21	39,397.45
Deposit	02/27/2019		Deposit		Checking -...	261.50	39,658.95
Deposit	02/27/2019		Deposit		Meade Co...	598.32	40,257.27
Total SEWER REVENUE						40,257.27	40,257.27
Total Total Charges for Services						40,257.27	40,257.27
TOTAL						40,257.27	40,257.27

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 02/11/20
 Accrual Basis

**City of Brandenburg - Revenue Fund
 Transaction Detail By Account
 March 2019**

Type	Date	Num	Memo	Clr	Split	Amount	Balance	
Total Charges for Services								
SEWER REVENUE								
Deposit	03/05/2019		Deposit		Meade Co...	2,081.37	2,081.37	
Deposit	03/08/2019		Deposit		Meade Co...	2,821.49	4,902.86	
Deposit	03/11/2019		Deposit		Meade Co...	7,926.05	12,828.91	
Deposit	03/11/2019		Deposit		Checking -...	1,471.10	14,300.01	
Deposit	03/13/2019		Deposit		Meade Co...	4,246.78	18,546.79	
Deposit	03/15/2019		Deposit		Meade Co...	6,921.80	25,468.59	
Deposit	03/15/2019		Deposit		Meade Co...	8,921.57	34,390.16	
Deposit	03/18/2019		Deposit		Checking -...	2,283.08	36,673.24	
Deposit	03/18/2019		Deposit		Meade Co...	1,993.10	38,666.34	
Deposit	03/25/2019		Deposit		Checking -...	1,654.26	40,320.60	
Deposit	03/25/2019		Deposit		Checking -...	470.99	40,791.59	
Deposit	03/26/2019		Deposit		Meade Co...	2,705.38	43,496.97	
Deposit	03/29/2019		Deposit		Meade Co...	58.72	43,555.69	
Deposit	03/29/2019		Deposit		Checking -...	210.34	43,766.03	
Total SEWER REVENUE						43,766.03	43,766.03	
Total Total Charges for Services						43,766.03	43,766.03	
TOTAL						43,766.03	43,766.03	

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 Accrual Basis

**City of Brandenburg - Revenue Fund
 Transaction Detail By Account
 April 2019**

Type	Date	Num	Memo	Clr	Spilt	Amount	Balance	
Total Charges for Services								
SEWER REVENUE								
Deposit	04/04/2019		Deposit		Meade Co...	2,074.97	2,074.97	
Deposit	04/09/2019		Deposit		Meade Co...	5,487.85	7,562.82	
Deposit	04/10/2019		Deposit		Checking -...	1,041.00	8,603.82	
Deposit	04/10/2019		Deposit		Meade Co...	7,037.14	15,640.96	
Deposit	04/15/2019		Deposit		Checking -...	1,366.20	17,007.16	
Deposit	04/15/2019		Deposit		Meade Co...	4,245.73	21,252.89	
Deposit	04/16/2019		Deposit		Meade Co...	6,382.72	27,635.61	
Deposit	04/16/2019		Deposit		Checking -...	468.85	28,104.46	
Deposit	04/16/2019		Deposit		Meade Co...	5,869.02	33,973.48	
Deposit	04/25/2019		Deposit		Checking -...	945.78	34,919.26	
Deposit	04/25/2019		Deposit		Meade Co...	2,324.79	37,244.05	
Deposit	04/26/2019		Deposit		Meade Co...	755.32	37,999.37	
Deposit	04/26/2019		Deposit		Checking -...	433.13	38,432.50	
Deposit	04/30/2019		Deposit		Checking -...	65.60	38,498.10	
Total SEWER REVENUE						38,478.10	38,478.10	
Total Total Charges for Services						38,478.10	38,478.10	
TOTAL						38,478.10	38,478.10	

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02/11/20

Accrual Basis

**City of Brandenburg - Revenue Fund
Transaction Detail By Account
May 2019**

Type	Date	Num	Memo	Clr	Split	Amount	Balance	
Total Charges for Services								
SEWER REVENUE								
Deposit	05/01/2019		Deposit		Meade Co...	51.07	51.07	
Deposit	05/06/2019		Deposit		Meade Co...	2,732.02	2,783.09	
Deposit	05/09/2019		Deposit		Checking -...	932.83	3,715.92	
Deposit	05/09/2019		Deposit		Meade Co...	4,370.62	8,086.54	
Deposit	05/13/2019		Deposit		Meade Co...	9,114.63	17,201.17	
Deposit	05/15/2019		Deposit		Checking -...	1,323.26	18,524.43	
Deposit	05/15/2019		Deposit		Meade Co...	3,527.29	22,051.72	
Deposit	05/16/2019		Deposit		Checking -...	784.44	22,836.16	
Deposit	05/16/2019		Deposit		Meade Co...	6,759.31	29,595.47	
Deposit	05/16/2019		Deposit		Meade Co...	6,664.71	36,260.18	
Deposit	05/23/2019		Deposit		Checking -...	1,079.27	37,339.45	
Deposit	05/28/2019		Deposit		Checking -...	705.06	38,044.51	
Deposit	05/28/2019		Deposit		Meade Co...	3,114.31	41,158.82	
Deposit	05/31/2019		Deposit		Checking -...	209.51	41,368.33	
Total SEWER REVENUE						41,368.33	41,368.33	
Total Total Charges for Services						41,368.33	41,368.33	
TOTAL						41,368.33	41,368.33	

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 02/11/20
 Accrual Basis

**City of Brandenburg - Revenue Fund
 Transaction Detail By Account
 June 2019**

Type	Date	Num	Memo	Clr	Split	Amount	Balance	
Total Charges for Services								
SEWER REVENUE								
Deposit	06/03/2019		Deposit		Meade Co...	119.30	119.30	
Deposit	06/07/2019		Deposit		Checking -...	722.33	841.63	
Deposit	06/07/2019		Deposit		Meade Co...	2,628.67	3,470.30	
Deposit	06/11/2019		Deposit		Meade Co...	7,069.98	10,540.28	
Deposit	06/13/2019		Deposit		Meade Co...	6,816.29	17,356.57	
Deposit	06/13/2019		Connnecti...		Meade Co...	750.00	18,106.57	
Deposit	06/14/2019		Deposit		Checking -...	1,138.43	19,245.00	
Deposit	06/14/2019		Deposit		Meade Co...	7,192.66	26,437.66	
Deposit	06/17/2019		Deposit		Meade Co...	8,029.62	34,467.28	
Deposit	06/17/2019		Deposit		Checking -...	1,130.65	35,597.93	
Deposit	06/17/2019		Deposit		Meade Co...	6,463.21	42,061.14	
Deposit	06/21/2019		Deposit		Checking -...	1,473.84	43,534.98	
Deposit	06/26/2019		Deposit		Checking -...	839.13	44,374.11	
Deposit	06/26/2019		Deposit		Meade Co...	4,897.76	49,271.87	
Total SEWER REVENUE						49,271.87	49,271.87	
Total Total Charges for Services						49,271.87	49,271.87	
TOTAL						49,271.87	49,271.87	

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 02/11/20
 Accrual Basis

**City of Brandenburg - Revenue Fund
 Transaction Detail By Account
 July 2019**

Type	Date	Num	Memo	Clr	Split	Amount	Balance	
Total Charges for Services								
SEWER REVENUE								
Deposit	07/02/2019		Deposit		Meade Co...	1,396.37	1,396.37	
Deposit	07/08/2019		Deposit		Meade Co...	4,631.44	6,027.81	
Deposit	07/10/2019		cc		Checking -...	425.18	6,452.99	
Deposit	07/10/2019		Deposit		Meade Co...	7,537.16	13,990.15	
Deposit	07/10/2019		Deposit		Meade Co...	3,755.35	17,745.50	
Deposit	07/11/2019		Deposit		Meade Co...	5,518.24	23,263.74	
Deposit	07/15/2019		Deposit		Checking -...	1,432.86	24,696.60	
Deposit	07/15/2019		Deposit		Meade Co...	3,227.05	27,923.65	
Deposit	07/15/2019		Deposit		Meade Co...	7,481.38	35,405.03	
Deposit	07/16/2019		Deposit		Checking -...	608.31	36,013.34	
Deposit	07/16/2019		Deposit		Meade Co...	1,250.77	37,264.11	
Deposit	07/22/2019		Deposit		Checking -...	1,339.27	38,603.38	
Deposit	07/26/2019		Deposit		Checking -...	1,054.25	39,657.63	
Deposit	07/26/2019		Deposit		Meade Co...	3,147.61	42,805.24	
Deposit	07/26/2019		Deposit		Meade Co...	733.78	43,539.02	
Deposit	07/29/2019		Deposit		Checking -...	111.18	43,650.20	
Deposit	07/29/2019		Deposit		Meade Co...	437.36	44,087.56	
Total SEWER REVENUE						44,087.56	44,087.56	
Total Total Charges for Services						44,087.56	44,087.56	
TOTAL						44,087.56	44,087.56	

1:20 PM
 02/11/20
 Accrual Basis

**City of Brandenburg - Revenue Fund
 Transaction Detail By Account
 August 2019**

Type	Date	Num	Memo	Clr	Split	Amount	Balance	
Total Charges for Services								
SEWER REVENUE								
Deposit	08/06/2019		Deposit		Meade Co...	2,113.29	2,113.29	
Deposit	08/07/2019		Deposit		Checking -...	786.20	2,899.49	
Deposit	08/08/2019		Deposit		Meade Co...	3,842.30	6,741.79	
Deposit	08/08/2019		G Hartlag...		Meade Co...	750.00	7,491.79	
Deposit	08/14/2019		Deposit		Meade Co...	8,142.05	15,633.84	
Deposit	08/14/2019		Deposit		Checking -...	902.86	16,536.70	
Deposit	08/15/2019		Deposit		Meade Co...	3,715.91	20,252.61	
Deposit	08/15/2019		Deposit		Checking -...	1,237.78	21,490.39	
Deposit	08/16/2019		Deposit		Meade Co...	7,567.42	29,057.81	
Deposit	08/16/2019		Deposit		Meade Co...	5,676.44	34,734.25	
Deposit	08/16/2019		Deposit		Meade Co...	3,517.95	38,252.20	
Deposit	08/22/2019		Deposit		Checking -...	885.53	39,137.73	
Deposit	08/26/2019		Deposit		Checking -...	1,404.33	40,542.06	
Deposit	08/26/2019		Deposit		Meade Co...	3,958.08	44,500.14	
Deposit	08/29/2019		Deposit		Checking -...	460.24	44,960.38	
Deposit	08/29/2019		Deposit		Meade Co...	131.27	45,091.65	
Total SEWER REVENUE						45,091.65	45,091.65	
Total Total Charges for Services						45,091.65	45,091.65	
TOTAL						45,091.65	45,091.65	

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Accrual Basis

**City of Brandenburg - Revenue Fund
Transaction Detail By Account
September 2019**

Type	Date	Num	Memo	Clr	Split	Amount	Balance	
Total Charges for Services								
SEWER REVENUE								
Deposit	09/05/2019		Deposit		Meade Co...	2,393.29	2,393.29	
Deposit	09/05/2019		Deposit		Meade Co...	750.00	3,143.29	
Deposit	09/06/2019		Deposit		Checking -...	794.06	3,937.35	
Deposit	09/11/2019		Deposit		Meade Co...	3,939.61	7,876.96	
Deposit	09/11/2019		Deposit		Meade Co...	2,586.19	10,463.15	
Deposit	09/11/2019		Deposit		Meade Co...	5,534.72	15,997.87	
Deposit	09/13/2019		Deposit		Checking -...	1,487.28	17,485.15	
Deposit	09/13/2019		Deposit		Meade Co...	9,048.58	26,533.73	
Deposit	09/13/2019		Deposit		Meade Co...	6,138.96	32,672.69	
Deposit	09/13/2019		Deposit		Meade Co...	6,326.63	38,999.32	
Deposit	09/16/2019		Deposit		Checking -...	81.91	39,081.23	
Deposit	09/16/2019		Deposit		Checking -...	1,308.61	40,389.84	
Deposit	09/16/2019		Deposit		Meade Co...	5,838.73	46,228.57	
Deposit	09/23/2019		Deposit		Checking -...	1,379.18	47,607.75	
Deposit	09/26/2019		Deposit		Checking -...	955.04	48,562.79	
Deposit	09/26/2019		Deposit		Meade Co...	3,585.21	52,148.00	
Deposit	09/30/2019		Deposit		Checking -...	274.98	52,422.96	
Deposit	09/30/2019		Deposit		Meade Co...	103.94	52,526.90	
Total SEWER REVENUE						52,526.90	52,526.90	
Total Total Charges for Services						52,526.90	52,526.90	
TOTAL						52,526.90	52,526.90	

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Accrual Basis

City of Brandenburg - Revenue Fund
Transaction Detail By Account
October 2019

Type	Date	Num	Memo	Clr	Split	Amount	Balance	
Total Charges for Services								
SEWER REVENUE								
Deposit	10/04/2019		Deposit		Meade Co...	2,781.97	2,781.97	
Deposit	10/08/2019		Deposit		Meade Co...	3,878.68	6,660.65	
Deposit	10/08/2019		Deposit		Checking -...	1,141.12	7,801.77	
Deposit	10/11/2019		Deposit		Meade Co...	3,952.79	11,754.56	
Deposit	10/15/2019		Deposit		Meade Co...	7,976.60	19,731.16	
Deposit	10/15/2019		Deposit		Checking -...	1,387.24	21,118.40	
Deposit	10/15/2019		Deposit		Meade Co...	9,598.83	30,717.23	
Deposit	10/15/2019		Deposit		Meade Co...	2,741.85	33,459.08	
Deposit	10/16/2019		Deposit		Checking -...	499.96	33,959.04	
Deposit	10/16/2019		Deposit		Meade Co...	6,504.99	40,464.03	
Deposit	10/22/2019		Deposit		Checking -...	1,096.49	41,560.52	
Deposit	10/22/2019		Deposit		Meade Co...	2,330.90	43,891.42	
Deposit	10/25/2019		Deposit		Checking -...	1,094.40	44,985.82	
Deposit	10/28/2019		Deposit		Checking -...	498.89	45,484.71	
Deposit	10/28/2019		Deposit		Meade Co...	2,673.94	48,158.65	
Deposit	10/30/2019		Deposit		Checking -...	17.16	48,175.81	
Total SEWER REVENUE						48,175.81	48,175.81	
Total Total Charges for Services						48,175.81	48,175.81	
TOTAL						48,175.81	48,175.81	

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Accrual Basis

**City of Brandenburg - Revenue Fund
Transaction Detail By Account
November 2019**

Type	Date	Num	Memo	Clr	Split	Amount	Balance	
Total Charges for Services								
SEWER REVENUE								
Deposit	11/01/2019		Deposit		Meade Co...	49.31	49.31	
Deposit	11/06/2019		Deposit		Checking -...	750.18	799.49	
Deposit	11/06/2019		Deposit		Meade Co...	2,123.25	2,922.74	
Deposit	11/12/2019		Deposit		Meade Co...	2,677.05	5,599.79	
Deposit	11/12/2019		Deposit		Meade Co...	5,636.98	11,236.77	
Deposit	11/14/2019		Deposit		Checking -...	1,161.99	12,398.76	
Deposit	11/14/2019		Deposit		Meade Co...	9,078.79	21,477.55	
Deposit	11/15/2019		Deposit		Checking -...	974.68	22,452.23	
Deposit	11/15/2019		Deposit		Meade Co...	8,271.82	30,724.05	
Deposit	11/15/2019		Deposit		Meade Co...	3,789.20	34,513.25	
Deposit	11/18/2019		Deposit		Checking -...	634.37	35,147.62	
Deposit	11/18/2019		Deposit		Meade Co...	4,708.09	39,855.71	
Deposit	11/25/2019		Deposit		Checking -...	1,328.44	41,184.15	
Deposit	11/25/2019		Deposit		Meade Co...	2,772.91	43,957.06	
Deposit	11/26/2019		Deposit		Checking -...	578.34	44,535.40	
Deposit	11/27/2019		Deposit		Checking -...	231.97	44,767.37	
Deposit	11/27/2019		Deposit		Meade Co...	601.42	45,368.79	
Deposit	11/27/2019		Deposit		Meade Co...	1,808.13	47,176.92	
Total SEWER REVENUE						47,176.92	47,176.92	
Total Total Charges for Services						47,176.92	47,176.92	
TOTAL						47,176.92	47,176.92	

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02/11/20

Accrual Basis

**City of Brandenburg - Revenue Fund
Transaction Detail By Account
December 2019**

Type	Date	Num	Memo	Ctr	Split	Amount	Balance	
Total Charges for Services								
SEWER REVENUE								
Deposit	12/03/2019		Deposit		Meade Co...	1,858.67	1,858.67	
Deposit	12/06/2019		Deposit		Checking -...	984.38	2,843.05	
Deposit	12/06/2019		Deposit		Meade Co...	2,571.74	5,414.79	
Deposit	12/09/2019		Deposit		Meade Co...	7,033.64	12,448.43	
Deposit	12/11/2019		Tap Fee / ...		Meade Co...	750.00	13,198.43	
Deposit	12/12/2019		Deposit		Meade Co...	5,819.95	19,018.38	
Deposit	12/13/2019		Deposit		Checking -...	1,297.57	20,315.95	
Deposit	12/13/2019		Deposit		Meade Co...	6,648.87	26,964.82	
Deposit	12/16/2019		Deposit		Checking -...	668.62	27,633.44	
Deposit	12/16/2019		Deposit		Meade Co...	8,726.39	36,359.83	
Deposit	12/16/2019		Deposit		Meade Co...	6,867.19	43,227.02	
Deposit	12/20/2019		Deposit		Checking -...	1,210.14	44,437.16	
Deposit	12/26/2019		Deposit		Checking -...	1,465.96	45,903.12	
Deposit	12/26/2019		Deposit		Meade Co...	2,749.75	48,652.87	
Deposit	12/27/2019		Deposit		Checking -...	397.34	49,050.21	
Total SEWER REVENUE						49,050.21	49,050.21	
Total Total Charges for Services						49,050.21	49,050.21	
TOTAL						49,050.21	49,050.21	

City of Brandenburg

Wastewater Treatment Plant Public-Private Partnership Request for Proposals Addendum #1

Overview

The Request for Proposals (“RFP”) issued on February 18, 2020 is clarified and modified as set forth in this addendum. The original RFP Documents remain in full force and effect, except as modified by this Addendum, which is hereby incorporated into the RFP. Respondents shall take this Addendum into consideration when preparing and submitting their Proposal.

This Addendum addresses some of the questions the City of Brandenburg (the “City”) has received in writing or during the first mandatory meeting. The City anticipates answering the remaining questions it has received or will receive in future addenda.

Questions and Answers

<u>Number</u>	<u>Question</u>	<u>Response</u>
25	How will the COVID-19 pandemic impact this project?	<p>The RFP proposal due date and deadline for written questions have been postponed until further notice. Interested parties can continue to submit written questions in the meantime.</p> <p>The City has scheduled a second opportunity to attend a mandatory meeting on April 21 at 10am EST via videoconference or telephone. Participants must RSVP by emailing BrandenburgRFP@gmail.com. The City will distribute the login information to registered participants before the meeting. Those who participated in the first mandatory meeting are welcome but are not required or expected to attend.</p>
24	Can we get a copy of the sign-in sheet from the mandatory pre-bid meeting?	Copies of the sign-in sheet may be obtained by emailing a request to BrandenburgRFP@gmail.com .

23	What is the WWTP inflow wastewater strength/constituents (BOD, TSS, Ammonia, Phosphorus, Nitrogen, etc.)?	The test results for the past three (3) months will be posted on the project website at https://brandenburg.ky.gov/Pages/Announcements.aspx .
22	Any existing WWTP plans available?	The plans may be shared to those who submit a request to BrandenburgRFP@gmail.com and sign a confidentiality agreement.
21	Any existing gravity sewer piping plans or additional information available for the 45,000' of clay tile piping?	A map of the clay tile piping may be shared to those who submit a request to BrandenburgRFP@gmail.com and sign a confidentiality agreement.
20	Does the City own the designated project site?	Yes.
19	How will the contractor access the wastewater plant site during construction? Do any provisions need to be made by the proposer to maintain or upgrade exist access roads?	The contractor will use the existing road until Nucor constructs a new road with access to the plant site.
18	What is the peak daily design flow and the peak hourly design flow	The existing plant design is 0.312 million gallons per day (MGD) with a peak daily design flow of 0.6 MGD.
17	What size should the backup generator be?	200kw.
16	What size electrical service is required at the pump station?	400 amps/ 240 volt/ 3 phase power.
15	What size is existing electric service at WWTP?	1200 amps/ 480 volt/ 3 phase power.
14	Who is the manufacturer of the pumps at the pump station?	Myers.
13	What vendor supplied the original pumps and control panels at the pump station?	Straeffer Pump and Supply, Inc.

12	Does “renovate a pump station” per 1.1 mean something different than protecting the primary pump station’s electrical equipment per 2.1.1.3?	No, both provisions refer to the same requirement. The City requires the Private Partner build a tower above the pump station and provide new electrical equipment, a control cabinet, and a backup generator. The equipment must be installed at an elevation at or above 437.8 feet or approximately 14.5 feet above ground level.
11	Is it the intent of the City to reuse the existing control building as a part of the new plant? If so, what components of the existing building are intended to be reused and what will not?	Proposals may include the existing control building and any other components that can be utilized.
10	Has a closure plan been completed for the existing plant?	No. The Private Partner will be responsible for completing the Closure Plan.
9	According to 401 KAR 5:006, a Facility Plan would be required to construct a new Wastewater Treatment Plant. Paragraphs 2.2.1 and 5.8 of the RFP requires conformance with all laws and regulations, but there is no specific mention of a Facility Plan. Would a Facility Plan be required as a part of this project? If so, at what point in the project design/construction (i.e. 30%, 60%, etc.) would that take place?	The Private Partner will be responsible for completing the Facilities Plan. The Facilities Plan was last updated in 2017 to reflect upgrading the existing facility to a capacity of 0.5 MGD. The Private Partner must contact Mr. Jory Becker from the Kentucky Energy and Environment Cabinet’s Division of Water about completing the Facilities Plan at 502-782-6887 or jory.becker@ky.gov no later than thirty (30) days after the contract is awarded.
8	Per 4.1.7 is an architectural rendering truly required, or is the evaluation team looking for a preliminary layout and process flow diagram of the proposed WWTP?	The City requires a preliminary layout and process flow diagram at a minimum. Respondents are encouraged to provide enough detail for the Selection Committee to properly evaluate the technical components of the proposal.
7	What is the definition of “sustainable” for this RFP? The word is used twice, once to describe the sewer replacement solution and once to describe treatment plant solution.	”Sustainable” is defined as “able to be maintained or continued.”
6	Who is on the selection committee?	The Selection Committee will consist of a combination of public servants and private entities with subject matter expertise.

5	Who with the City will be overseeing this project?	The Public Works Director, T.J. Hughes and/or the Mayor's designee(s) will oversee the project.
4	The structure of the interlocal agreement could affect the terms of the P3 agreement. Would the County be a cosigner to the P3 agreement?	The interlocal agreement does not include this provision. Respondents are encouraged to provide the difference such an agreement would make on their proposal.
3	The RFP mentions there will be an interlocal agreement to share the costs associated with this project. Have the terms of this agreement been defined? If so, what are the terms?	Meade County has agreed to pay for half of the cost of the new WWTP on an annual basis for a term up to twenty-one (21) years, unless both parties consent to a longer term. Once the Department of Local Government approves the interlocal agreement, it will be posted to the City's website.
2	How much money has been dedicated to the project by Nucor, Meade County, State, and others?	The amount of money to be dedicated is to be determined and bidders should be creative with their proposals.
1	What is the required finish date of the project to meet the City's and Nucor's needs?	We anticipate a completion date of December 31, 2021 would meet the City's and Nucor's needs; however, this date is subject to change. Respondents are reminded of the City's objective to prevent any disruption to Nucor's construction timeline. Proposed project timelines will be evaluated by the Selection Committee.

Brandenburg WWTP
PO Box 305
Brandenburg, KY, 40108

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Beckmar Certificate Of Analysis 200107017

200107017.01			Collection Date: 01/07/2020 08:00 AM				Sampled By: M Gordon		
Project: Wastewater			Sample Description: Brandenburg WWTP Effluent				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Total Suspended Solids	Total Suspended Solids	34	mg/L	6	C24	SM 2540D 21st	01/08/2020 04:30 PM	DKL	
Nitrate	Nitrate-N	24.0	mg/L	0.2	C24	SM 4110B 21st	01/07/2020 04:54 PM	CK	
Nitrite	Nitrite-N	<0.2	mg/L	0.2	C24	SM 4110B 21st	01/07/2020 04:54 PM	CK	
Total Nitrogen	Total Nitrogen	28.4	mg/L		C24	SM 4500N A	01/16/2020 01:45 PM	PGR	
CBOD	CBOD	10	mg/L	4	C24	SM 5210B 21st	01/08/2020 04:30 PM	MDC	

200107017.02			Collection Date: 01/07/2020 08:00 AM				Sampled By: M Gordon		
Project: Wastewater			Sample Description: Brandenburg WWTP Effluent				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Ammonia	Ammonia	<0.2	mg/L	0.2	C24	SM 4500-NH3 D 21st	01/08/2020 05:00 PM	MDC	
Total Kjeldahl Nitrogen	Total Kjeldahl Nitrogen (TKN)	4.2	mg/L	0.2	C24	SM 4500-Norg/D 21st	01/10/2020 09:30 AM	CK	
Total Phosphorous	Total Phosphorus	5.79	mg/L	0.03	C24	SM 4500-P B.5/E 21st	01/08/2020 04:50 PM	MDC	

200107017.04			Collection Date: 01/07/2020 09:25 AM				Sampled By: Daniel Kidd		
Project: Wastewater			Sample Description: Brandenburg WWTP Effluent				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Chlorine-Total	Chlorine, Total	0.010	mg/L	0.01	Grab	HACH 8167	01/07/2020 09:25 AM	DAK	
D.O.	Dissolved Oxygen	11.6	mg/L	0.1	Grab	SM 4500-O G 21st	01/07/2020 09:25 AM	DAK	
pH	pH	7.91	SU		Grab	SM4500 H+ B	01/07/2020 09:25 AM	DAK	
Temperature	Temperature	9.5	C		Grab	SM 2550B 21st	01/07/2020 09:25 AM	DAK	

200107017.05			Collection Date: 01/07/2020 08:00 AM				Sampled By: M Gordon		
Project: Wastewater			Sample Description: Brandenburg WWTP Influent				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Total Suspended Solids	Total Suspended Solids	170	mg/L	6	C24	SM 2540D 21st	01/08/2020 04:30 PM	DKL	

Brandenburg WWTP
PO Box 305
Brandenburg , KY, 40108

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Beckmar Certificate Of Analysis 200107017

200107017.05			Collection Date: 01/07/2020 08:00 AM				Sampled By: M Gordon	
Project: Wastewater			Sample Description: Brandenburg WWTP Influent				Matrix: Wastewater	
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst
CBOD	CBOD	226	mg/L	4	C24	SM 5210B 21st	01/08/2020 04:30 PM	MDC

200107017.06			Collection Date: 01/07/2020 08:00 AM				Sampled By: M Gordon	
Project: Wastewater			Sample Description: Brandenburg WWTP Influent				Matrix: Wastewater	
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst
Ammonia	Ammonia	33.5	mg/L	0.2	C24	SM 4500-NH3 D 21st	01/08/2020 05:00 PM	MDC

Thank You,



Paul Barker
Lab Manager

Beckmar Environmental Laboratory
 3251 Ruckriegel Parkway
 Louisville, KY 40299
 Phone: (502) 266-6533
 Fax: (502) 266-6446

Beckmar

**CHAIN OF CUSTODY
 AND ANALYTICAL REQUEST**

*Job ID:200107017



Brandenburg WWTP

Month: *01* Year: *2020*

Special Instructions:

Calibration ID: *DK20200107*

Facility Information Client Name Brandenburg WWTP Address Buttermilk Falls Rd. City, St, ZIP Brandenburg, KY 40108 Phone _____		Send Results To: (same as client info <input type="checkbox"/> yes <input type="checkbox"/> no) Client Name Brandenburg WWTP Address PO Box 305 City, State, ZIP Brandenburg, KY 40108 Phone / Fax 270-547-0224 E-mail tjhughes@bbtel.com		Billing Information (same as client info <input type="checkbox"/> yes <input type="checkbox"/> no) Client Name Brandenburg WWTP Address PO Box 305 City, State, ZIP Brandenburg, KY 40108 Contact Name: Mr. Thomas J. Hughes		PWS ID (if applicable) KY0021474 Compliance (Y/N) Y State KY Samples chlorinated (Y/N) _____	
Collected by (please print): <i>M. Gordon / D. Kidd</i>		(signature): <i>M. Gordon / D. Kidd</i>		P.O. Number _____		1 X Month	

Bottle ID (Lab Use Only)	Collection		Sample Point / Description	Analysis Requested	Field Data				Collection Type (See Bottom Right)	Number of Containers	Type of Container (See Bottom Center)	Matrix Code (See Bottom Right)	Preservative Code (See Bottom Right)	Initial Laboratory Location	Preservative Added in-house (Y/N)
	Day Start / Stop	Time (24Hr) Start / Stop			pH (S.U.)	DO (Mg/L)	Cl ₂ (mg/L) Free Total	Temp. (°C)							
	<i>6</i>	<i>7</i>	<i>0800</i>	Effluent											
	<i>6</i>	<i>7</i>	<i>0800</i>	Effluent											
	<i>7</i>	<i>0935</i>		Effluent											
	<i>7</i>	<i>0925</i>		Effluent											
				Effluent Flow <i>.200</i>											
	<i>6</i>	<i>7</i>	<i>0800</i>	Influent											
				Influent Flow <i>203,492</i>											
						<i>7.9</i>	<i>11.6</i>	<i>0.01</i>	<i>9.5</i>						

Relinquished by: <i>M. Gordon</i>	Received by: <i>D. Kidd</i>	Date: <i>1-7-2020</i>	Time: <i>0951</i>	Type of Container G10 = 1000ml Glass G5 = 500ml Glass P10 = 1000ml Plastic H40 = 40ml Headspace SG = 16 Oz Glass - Soil W1 = 120ml Plastic Sterile D1 = 120ml Plastic Sterile P25 = 250ml Plastic P1 = 100ml Plastic 4LC - 4 Liter Cube 1LC - 1 Liter Cube	Sample rejection : Reason: Temp. At Receipt <i>3</i> °C Check Applicable Field Wet Ice <input checked="" type="checkbox"/> Blue Ice _____	Matrix Codes DW = Drinking Water S = Soil O = Other WW = Wastewater SL = Sludge GW = Groundwater P = Paint SW = Surface Water V = Vegetation		
Relinquished by: <i>D. Kidd</i>	Received by: <i>M. Gordon</i>	Date: <i>1-7-2020</i>	Time: <i>1508</i>		Sample Integrity Broken Containers Yes No N/A Custody Seals Intact <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> COC / Sample Label Agreement <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Proper Containers <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Samples Within Holding Times <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> All Samples on COC Received <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> W1 & D1 Filled to 100ml mark <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Headspace acceptable <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		Preservative Codes NJ = Nitric Acid (HNO ₃) SA = Sulfuric Acid (H ₂ SO ₄) HA = Hydrochloric Acid (HCl) SH = Sodium Hydroxide (NaOH) ST = Sodium Thiosulfate ZN = Zinc Acetate SS = Sodium Sulfite AA = Ascorbic Acid R = Refrigerated (<4° C)	
Relinquished by:	Received by:	Date:	Time:		Collection Types G - Grab C8 - 8Hr Composite C12 - 12Hr Composite C24 - 24Hr Composite C - Composi			Initial <i>KP</i>
Relinquished by:	Received by:	Date:	Time:					
Relinquished by:	Received by:	Date:	Time:					
Relinquished by:	Received by:	Date:	Time:					
Comments:								

Brandenburg WWTP
PO Box 305
Brandenburg , KY, 40108

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Beckmar Certificate Of Analysis 200110013

200110013.01		Collection Date: 01/08/2020 08:30 AM				Sampled By: Client		
Project: E-coli		Sample Description: Effluent				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst
E-Coli / WW	E. coli	60000	col/100mL	1	Grab	SM 9223B	01/08/2020 02:25 PM	MDC

Thank You,



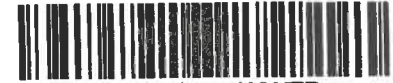
Paul Barker
Lab Manager

Beckmar Environmental Laboratory
 3251 Ruckriegel Parkway
 Louisville, KY 40299
 Phone: (502) 266-6533
 Fax: (502) 266-6446



CHAIN OF CUSTODY AND ANALYTICAL REQUEST

* Job ID: 200110013



Brandenburg WWTP

Month: 01 Year: 2020

Special Instructions:

Calibration ID: _____

Facility Information Client Name: <u>Brandenburg</u> Address: _____ City, St, ZIP: _____ Phone: _____		Send Results To: (same as client info <input type="checkbox"/> yes <input type="checkbox"/> no) Client Name: _____ Address: _____ City, State, ZIP: _____ Phone / Fax: _____ E-mail: _____		Billing Information (same as client info <input type="checkbox"/> yes <input type="checkbox"/> no) Client Name: _____ Address: _____ City, State, ZIP: _____ Contact Name: _____		PWS ID (if applicable): _____ Compliance (Y/N): _____ State: _____ Samples chlorinated (Y/N): _____	
Collected by (please print): <u>Client</u> (signature): <u>Client</u>		P.O. Number: _____		Collection Type (See Bottom Right) Number of Containers Type of Container (See Bottom Center) Matrix Code (See Bottom Right) Preservative Code (See Bottom Right) Initial Laboratory Location Preservative Added in-house (Y/N)			

Bottle ID (Lab Use Only)	Collection		Sample Point / Description	Analysis Requested	Field Data				Collection Type (See Bottom Right)	Number of Containers	Type of Container (See Bottom Center)	Matrix Code (See Bottom Right)	Preservative Code (See Bottom Right)	Initial Laboratory Location	Preservative Added in-house (Y/N)
	Day	Time			pH (S.U.)	DO (Mg/L)	Cl ₂ (mg/L)								
	8	0830	EFF	Ecoli Resample			Free	Total							

Relinquished by: <u>Client</u>	Received by: <u>Naivika</u>	Date: <u>1-8-2020</u>	Time: <u>14:11</u>	Type of Container G10 = 1000ml Glass G5 = 500ml Glass P10 = 1000ml Plastic H40 = 40ml Headspace SG = 16 Oz Glass - Soil W1 = 120ml Plastic Sterile D1 = 120ml Plastic Sterile P25 = 250ml Plastic P1 = 100ml Plastic 4LC = 4 Liter Cube 1LC = 1 Liter Cube	Sample rejection: Reason: _____ Temp. At Receipt: <u>3</u> °C Check Applicable Field: Wet/Ice <input checked="" type="checkbox"/> Blue Ice _____	Matrix Codes DW = Drinking Water S = Soil O = Other WW = Wastewater SL = Sludge GW = Groundwater P = Paint SW = Surface Water V = Vegetation		
Relinquished by: <u>Naivika</u>	Received by: <u>Naivika</u>	Date: <u>1-9-2020</u>	Time: <u>15:00</u>		Sample Integrity Yes No N/A Broken Containers: _____ <input checked="" type="checkbox"/> _____ Custody Seals Intact: _____ <input checked="" type="checkbox"/> _____ COC / Sample Label Agreement: _____ <input checked="" type="checkbox"/> _____ Proper Containers: _____ <input checked="" type="checkbox"/> _____ Samples Within Holding Times: _____ <input checked="" type="checkbox"/> _____ All Samples on COC Received: _____ <input checked="" type="checkbox"/> _____ W1 & D1 Filled to 100ml mark: _____ <input checked="" type="checkbox"/> _____ Headspace acceptable: _____ <input checked="" type="checkbox"/> _____		Collection Types G - Grab C8 - 8Hr Composite C12 - 12Hr Composite C24 - 24Hr Composite C - Composi	
Relinquished by:	Received by:	Date:	Time:		Preservative Codes Ni = Nitric Acid (HNO ₃) SA = Sulfuric Acid (H ₂ SO ₄) HA = Hydrochloric Acid (HCl) SH = Sodium Hydroxide (NaOH) ST = Sodium Thiosulfate ZN = Zinc Acetate SS = Sodium Sulfite AA = Ascorbic Acid R = Refrigerated (<4° C)			Initial <u>KW</u>
Relinquished by:	Received by:	Date:	Time:					
Relinquished by:	Received by:	Date:	Time:					
Relinquished by:	Received by:	Date:	Time:					
Comments:								

Brandenburg WWTP
PO Box 305
Brandenburg , KY, 40108

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Beckmar Certificate Of Analysis 200109042

200109042.01			Collection Date: 01/09/2020 11:20 AM				Sampled By: Client	
Project: E-coli			Sample Description: Effluent				Matrix: Wastewater	
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst
E-Coli / WW	E. coli	<1	col/100mL	1	Grab	SM 9223B	01/09/2020 04:30 PM	RLB

200109042.02			Collection Date: 01/09/2020 11:36 AM				Sampled By: Client	
Project: E-coli			Sample Description: Effluent				Matrix: Wastewater	
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst
E-Coli / WW	E. coli	<1	col/100mL	1	Grab	SM 9223B	01/09/2020 04:30 PM	RLB

Thank You,



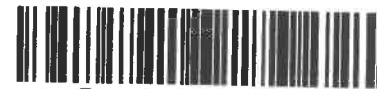
Paul Barker
Lab Manager

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 Fax: (502) 266-6446



CHAIN OF CUSTODY AND ANALYTICAL REQUEST

*Job ID:200109042



Brandenburg WWTP

Month: 01 Year: 2020

Special Instructions:

Calibration ID: _____

Facility Information		Send Results To: (same as client info <input type="checkbox"/> yes <input type="checkbox"/> no)		Billing Information (same as client info <input type="checkbox"/> yes <input type="checkbox"/> no)		PWS ID (if applicable) KY0021474	
Client Name Brandenburg WWTP	Client Name Brandenburg WWTP	Client Name Brandenburg WWTP	Client Name Brandenburg WWTP		Compliance (Y/N) Y		State KY
Address Buttermilk Falls Rd.	Address PO Box 305	Address PO Box 305	Address PO Box 305		Samples chlorinated (Y/N)		
Cty, St, ZIP Brandenburg, KY 40108	City, State, ZIP Brandenburg, KY 40108	City, State, ZIP Brandenburg, KY 40108	City, State, ZIP Brandenburg, KY 40108				
Phone	Phone / Fax 270-547-0224	Phone / Fax 270-547-0224	Contact Name: Mr. Thomas J. Hughes				
E-mail tjhughes@bbtel.com	Collected by (please print): <i>Client</i>		(signature): <i>Client</i>		P.O. Number 1 X Month		

Bottle ID (Lab Use Only)	Collection		Sample Point / Description	Analysis Requested	Field Data				Collection Type (See Bottom Right)	Number of Containers	Type of Container (See Bottom Center)	Matrix Code (See Bottom Right)	Preservative Code (See Bottom Right)	Initial Laboratory Location	Preservative Added in-house (Y/N)	
	Day Start / Stop	Time (24Hr) Start / Stop			pH (S.U.)	DO (Mg/L)	Cl ₂ (mg/L)									Temp. (°C)
	9	1120	Resample	E-Coli			Free	Total			G	1	W1	WW	ST	BR
	9	1136	Resample	E-Coli							G	1	W1	WW	ST	BR

Relinquished by: <i>Client</i>	Received by: <i>Sanjiv</i>	Date: 1-9-2020	Time: 1138	Type of Container G10 = 1000ml Glass G5 = 500ml Glass P10 = 1000ml Plastic H40 = 40ml Headspace SG = 16 Oz Glass - Soil W1 = 120ml Plastic Sterile D1 = 120ml Plastic Sterile P25 = 250ml Plastic P1 = 100ml Plastic 4LC - 4 Liter Cube 1LC - 1 Liter Cube	Sample rejection : Reason: Temp. At Receipt 3 °C	Matrix Codes DW = Drinking Water S = Soil O = Other WW = Wastewater SL = Sludge GW = Groundwater P = Paint SW = Surface Water V = Vegetation		
Relinquished by: <i>Sanjiv</i>	Received by: <i>Sanjiv</i>	Date: 1-9-2020	Time: 1500		Check Applicable Field Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/>		Collection Types G - Grab C8 - 8Hr Composite C12 - 12Hr Composite C24 - 24Hr Composite C - Composi	
Relinquished by:	Received by:	Date:	Time:		Sample Integrity Yes No N/A Broken Containers <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Custody Seals Intact <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> COC / Sample Label Agreement <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Proper Containers <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Samples Within Holding Times <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> All Samples on COC Received <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> W1 & D1 Filled to 100ml mark <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Headspace acceptable <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>			Preservative Codes Ni = Nitric Acid (HNO ₃) SA = Sulfuric Acid (H ₂ SO ₄) HA = Hydrochloric Acid (HCl) SH = Sodium Hydroxide (NaOH) ST = Sodium Thiosulfate ZN = Zinc Acetate SS = Sodium Sulfite AA = Ascorbic Acid R = Refrigerated (<4° C)
Relinquished by:	Received by:	Date:	Time:					
Relinquished by:	Received by:	Date:	Time:					
Relinquished by:	Received by:	Date:	Time:					
Comments:					Preservative Added (Date/Time)	Initial <i>JP</i>		

Brandenburg WWTP
PO Box 305
Brandenburg, KY, 40108

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Beckmar Certificate Of Analysis 200114015

200114015.01		Collection Date: 01/14/2020 08:00 AM					Sampled By: James Devine		
Project: Wastewater		Sample Description: Brandenburg WWTP Effluent					Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Total Suspended Solids	Total Suspended Solids	39	mg/L	6	C24	SM 2540D 21st	01/15/2020 04:30 PM	DKL	
Nitrate	Nitrate-N	22.6	mg/L	0.2	C24	SM 4110B 21st	01/14/2020 03:45 PM	CK	
Nitrite	Nitrite-N	0.2	mg/L	0.2	C24	SM 4110B 21st	01/14/2020 03:45 PM	CK	
Total Nitrogen	Total Nitrogen	28.2	mg/L		C24	SM 4500N A	01/22/2020 09:00 AM	PGR	
CBOD	CBOD	20	mg/L	4	C24	SM 5210B 21st	01/15/2020 04:30 PM	MDC	

200114015.02		Collection Date: 01/14/2020 08:00 AM					Sampled By: James Devine		
Project: Wastewater		Sample Description: Brandenburg WWTP Effluent					Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Ammonia	Ammonia	<0.2	mg/L	0.2	C24	SM 4500-NH3 D 21st	01/15/2020 05:00 PM	MDC	
Total Kjeldahl Nitrogen	Total Kjeldahl Nitrogen (TKN)	5.4	mg/L	0.2	C24	SM 4500-Norg/D 21st	01/20/2020 09:30 AM	CK	
Total Phosphorous	Total Phosphorus	5.86	mg/L	0.03	C24	SM 4500-P B.5/E 21st	01/17/2020 12:00 PM	MDC	

200114015.03		Collection Date: 01/14/2020 09:15 AM					Sampled By: Daniel Kidd		
Project: Wastewater		Sample Description: Brandenburg WWTP Effluent					Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
E-Coli / WW	E. coli	<1	col/100mL	1	Grab	SM 9223B	01/14/2020 02:35 PM	RLB	

200114015.04		Collection Date: 01/14/2020 08:55 AM					Sampled By: Daniel Kidd		
Project: Wastewater		Sample Description: Brandenburg WWTP Effluent					Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Chlorine-Total	Chlorine, Total	0.010	mg/L	0.01	Grab	HACH 8167	01/14/2020 08:55 AM	DAK	
D.O.	Dissolved Oxygen	12.1	mg/L	0.1	Grab	SM 4500-O G 21st	01/14/2020 08:55 AM	DAK	
pH	pH	7.56	SU		Grab	SM4500 H+ B	01/14/2020 08:55 AM	DAK	
Temperature	Temperature	11.7	C		Grab	SM 2550B 21st	01/14/2020 08:55 AM	DAK	

Brandenburg WWTP
PO Box 305
Brandenburg , KY, 40108

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Beckmar Certificate Of Analysis 200114015

200114015.05			Collection Date: 01/14/2020 08:00 AM				Sampled By: James Devine		
Project: Wastewater			Sample Description: Brandenburg WWTP Influent				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Total Suspended Solids	Total Suspended Solids	188	mg/L	6	C24	SM 2540D 21st	01/15/2020 04:30 PM	DKL	
CBOD	CBOD	286	mg/L	4	C24	SM 5210B 21st	01/15/2020 04:30 PM	MDC	

200114015.06			Collection Date: 01/14/2020 08:00 AM				Sampled By: James Devine		
Project: Wastewater			Sample Description: Brandenburg WWTP Influent				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Ammonia	Ammonia	39.2	mg/L	0.2	C24	SM 4500-NH3 D 21st	01/15/2020 05:00 PM	MDC	

Thank You,



Paul Barker
Lab Manager

Beckmar Environmental Laboratory
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Beckmar

**CHAIN OF CUSTODY
 AND ANALYTICAL REQUEST**

*Job ID:200114015



Brandenburg WWTP

Month: 1 Year: 2020

Special Instructions:

Calibration ID: OK20200114

Facility Information Client Name <u>Brandenburg WWTP</u> Address <u>Buttermilk Falls Rd.</u> City, St, ZIP <u>Brandenburg, KY 40108</u> Phone _____		Send Results To: (same as client info <input type="checkbox"/> yes <input type="checkbox"/> no) Client Name <u>Brandenburg WWTP</u> Address <u>PO Box 305</u> City, State, ZIP <u>Brandenburg, KY 40108</u> Phone / Fax <u>270-547-0224</u> E-mail <u>t.hughes@bbtel.com</u>		Billing Information (same as client info <input type="checkbox"/> yes <input type="checkbox"/> no) Client Name <u>Brandenburg WWTP</u> Address <u>PO Box 305</u> City, State, ZIP <u>Brandenburg, KY 40108</u> Contact Name: <u>Mr. Thomas J. Hughes</u>		PWS ID (if applicable) <u>KY0021474</u> Compliance (Y/N) <u>Y</u> State <u>KY</u> Samples chlorinated (Y/N) _____	
Collected by (please print) <u>J. Davis / O. Kidd</u> (signature) <u>[Signature]</u>		P.O. Number _____		1 X Month			

Bottle ID (Lab Use Only)	Collection		Sample Point / Description	Analysis Requested	Field Data				Collection Type (See Bottom Right)	Number of Containers	Type of Container (See Bottom Center)	Matrix Code (See Bottom Right)	Preservative Code (See Bottom Right)	Initial Laboratory Location	Preservative Added In-house (Y/N)
	Day Start / Stop	Time (24Hr) Start / Stop			pH (S.U.)	DO (Mg/L)	Cb (mg/L) Free Total								
	13	14	0800	Effluent											
	13	14	0800	Effluent											
	14		0915	Effluent											
	14		0855	Effluent											
				Effluent Flow <u>.227</u>											
	13	14	0800	Influent											
				Influent Flow <u>214.459</u>											

Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date: <u>01-14-20</u>	Time: <u>0920</u>	Type of Container G10 = 1000ml Glass G5 = 500ml Glass P10 = 1000ml Plastic H40 - 40ml Headspace SG = 16 Oz Glass - Soil W1 = 120ml Plastic Sterile D1 = 120ml Plastic Sterile P25 = 250ml Plastic P1 = 100ml Plastic 4LC - 4 Liter Cube 1LC - 1 Liter Cube	Sample rejection : Reason: Temp. At Receipt <u>3</u> °C Check Applicable Field Wet Ice <input checked="" type="checkbox"/> Blue Ice _____	Matrix Codes DW = Drinking Water S = Soil O = Other WW = Wastewater SL = Sludge GW = Groundwater P = Paint SW = Surface Water V = Vegetation	
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date: <u>1-14-2020</u>	Time: <u>1323</u>		Sample Integrity Yes No N/A Broken Containers _____ / _____ Custody Seals Intact _____ / _____ COC / Sample Label Agreement _____ / _____ Proper Containers _____ / _____ Samples Within Holding Times _____ / _____ All Samples on COC Received _____ / _____ W1 & D1 Filled to 100ml mark _____ / _____ Headspace acceptable _____ / _____		Collection Types G - Grab C8 - 8Hr Composite C12 - 12Hr Composite C24 - 24Hr Composite C - Composi
Relinquished by:	Received by:	Date:	Time:		Preservative Codes NI = Nitric Acid (HNO ₃) SA = Sulfuric Acid (H ₂ SO ₄) HA = Hydrochloric Acid (HCl) SH = Sodium Hydroxide (NaOH) ST = Sodium Thiosulfate ZN = Zinc Acetate SS = Sodium Sulfite AA = Ascorbic Acid R = Refrigerated (<4° C)		
Relinquished by:	Received by:	Date:	Time:				
Relinquished by:	Received by:	Date:	Time:				
Relinquished by:	Received by:	Date:	Time:				
Comments: _____					Preservative Added (Date/Time) _____	Initial <u>[Signature]</u>	

Brandenburg WWTP
PO Box 305
Brandenburg, KY, 40108

Page 1 of 2

Beckmar Certificate Of Analysis 200121019

200121019.01		Collection Date: 01/21/2020 08:00 AM					Sampled By: Client	
Project: Wastewater		Sample Description: Brandenburg WWTP Effluent					Matrix: Wastewater	
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst
Total Suspended Solids	Total Suspended Solids	45	mg/L	6	C24	SM 2540D 21st	01/22/2020 04:30 PM	DKL
Nitrate	Nitrate-N	23.5	mg/L	0.2	C24	SM 4110B 21st	01/21/2020 04:41 PM	CK
Nitrite	Nitrite-N	0.2	mg/L	0.2	C24	SM 4110B 21st	01/21/2020 04:41 PM	CK
Total Nitrogen	Total Nitrogen	28.7	mg/L		C24	SM 4500N A	01/29/2020 10:20 AM	PGR
CBOD	CBOD	16	mg/L	4	C24	SM 5210B 21st	01/22/2020 04:30 PM	PDB

200121019.02		Collection Date: 01/21/2020 08:00 AM					Sampled By: Client	
Project: Wastewater		Sample Description: Brandenburg WWTP Effluent					Matrix: Wastewater	
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst
Ammonia	Ammonia	<0.2	mg/L	0.2	C24	SM 4500-NH3 D 21st	01/22/2020 05:00 PM	MDC
Total Kjeldahl Nitrogen	Total Kjeldahl Nitrogen (TKN)	5.0	mg/L	0.2	C24	SM 4500-Norg/D 21st	01/27/2020 09:45 AM	CK
Total Phosphorous	Total Phosphorus	5.70	mg/L	0.03	C24	SM 4500-P B.5/E 21st	01/23/2020 02:00 PM	MDC

200121019.03		Collection Date: 01/21/2020 09:42 AM					Sampled By: Daniel Kidd	
Project: Wastewater		Sample Description: Brandenburg WWTP Effluent					Matrix: Wastewater	
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst
E-Coli / WW	E. coli	<1	col/100mL	1	Grab	SM 9223B	01/21/2020 03:50 PM	MDC

200121019.04		Collection Date: 01/21/2020 09:25 AM					Sampled By: Daniel Kidd	
Project: Wastewater		Sample Description: Brandenburg WWTP Effluent					Matrix: Wastewater	
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst
Chlorine-Total	Chlorine, Total	0.01	mg/L	0.01	Grab	HACH 8167	01/21/2020 09:25 AM	DAK
D.O.	Dissolved Oxygen	11.9	mg/L	0.1	Grab	SM 4500-O G 21st	01/21/2020 09:25 AM	DAK
pH	pH	7.37	SU		Grab	SM4500 H+ B	01/21/2020 09:25 AM	DAK
Temperature	Temperature	11.3	C		Grab	SM 2550B 21st	01/21/2020 09:25 AM	DAK

Brandenburg WWTP
PO Box 305
Brandenburg , KY, 40108


Page 2 of 2

Beckmar Certificate Of Analysis 200121019

200121019.05			Collection Date: 01/21/2020 08:00 AM				Sampled By: Client	
Project: Wastewater			Sample Description: Brandenburg WWTP Influent				Matrix: Wastewater	
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst
Total Suspended Solids	Total Suspended Solids	46	mg/L	6	C24	SM 2540D 21st	01/22/2020 04:30 PM	DKL
CBOD	CBOD	191	mg/L	4	C24	SM 5210B 21st	01/22/2020 04:30 PM	PDB

200121019.06			Collection Date: 01/21/2020 08:00 AM				Sampled By: Client	
Project: Wastewater			Sample Description: Brandenburg WWTP Influent				Matrix: Wastewater	
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst
Ammonia	Ammonia	41.0	mg/L	0.2	C24	SM 4500-NH3 D 21st	01/27/2020 09:30 AM	DKL

Thank You,



Paul Barker
Lab Manager

Beckmar Environmental Laboratory
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Beckmar

**CHAIN OF CUSTODY
 AND ANALYTICAL REQUEST**

*Job ID:200121019



Brandenburg WWTP

Month: 01 Year: 20

Special Instructions:

Calibration ID: OK 20200121

Facility Information Client Name <u>Brandenburg WWTP</u> Address <u>Buttermilk Falls Rd.</u> City, St, ZIP <u>Brandenburg, KY 40108</u> Phone _____		Send Results To: (same as client info <input type="checkbox"/> yes <input type="checkbox"/> no) Client Name <u>Brandenburg WWTP</u> Address <u>PO Box 305</u> City, State, ZIP <u>Brandenburg, KY 40108</u> Phone / Fax <u>270-547-0224</u> E-mail <u>tjhughes@bbtel.com</u>		Billing Information (same as client info <input type="checkbox"/> yes <input type="checkbox"/> no) Client Name <u>Brandenburg WWTP</u> Address <u>PO Box 305</u> City, State, ZIP <u>Brandenburg, KY 40108</u> Contact Name: <u>Mr. Thomas J. Hughes</u>		PWS ID (if applicable) <u>KY0021474</u> Compliance (Y/N) <u>Y</u> State <u>KY</u> Samples chlorinated (Y/N) _____	
Collected by (please print): <u>Tom Kidd</u> (signature): <u>[Signature]</u>		P.O. Number _____		1 X Month		Initial Laboratory Location _____ Preservative Added in-house (Y/N) _____	

Bottle ID (Lab Use Only)	Collection		Sample Point / Description	Analysis Requested	Field Data				Collection Type (See Bottom Right)	Number of Containers	Type of Container (See Bottom Center)	Matrix Code (See Bottom Right)	Preservative Code (See Bottom Right)	Initial Laboratory Location	Preservative Added in-house (Y/N)
	Day Start / Stop	Time (24Hr) Start / Stop			pH (S.U.)	DO (Mg/L)	Cl ₂ (mg/L) Free Total	Temp. (°C)							
01	20	0800	Effluent	CBOD, TSS, NO2, NO3, Total Nitrogen					C24	1	P10	WW	R	R2	N
02	20	0800	Effluent	TKN, NH3, TP					C24	1	P10	WW	SA	R2	N
03	21	0942	Effluent	E-Coli					G	1	W1	WW	ST	R2	N
04	21	0925	Effluent	Field Data					G			WW		X	X
05	21	0925	OK Effluent Flow .204		7.37	11.9	0.01	11.3							
06	20	0800	Influent	CBOD, TSS					C24	1	P10	WW	R	R2	N
07	21	0800	Influent Flow 195,890	NH3										R2	N

Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date: <u>1-21-2020</u>	Time: <u>0945</u>	Type of Container: <u>G10 = 1000ml Glass</u>
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date: <u>1/21/2020</u>	Time: <u>1507</u>	<u>G5 = 500ml Glass</u>
Relinquished by: _____	Received by: _____	Date: _____	Time: _____	<u>P10 = 1000ml Plastic</u>
Relinquished by: _____	Received by: _____	Date: _____	Time: _____	<u>H40 - 40ml Headspace</u>
Relinquished by: _____	Received by: _____	Date: _____	Time: _____	<u>SG = 16 Oz Glass - Soil</u>
Relinquished by: _____	Received by: _____	Date: _____	Time: _____	<u>W1 = 120ml Plastic Sterile</u>
Relinquished by: _____	Received by: _____	Date: _____	Time: _____	<u>D1 = 120ml Plastic Sterile</u>
Relinquished by: _____	Received by: _____	Date: _____	Time: _____	<u>P25 = 250ml Plastic</u>
Relinquished by: _____	Received by: _____	Date: _____	Time: _____	<u>P1 = 100ml Plastic</u>
Relinquished by: _____	Received by: _____	Date: _____	Time: _____	<u>4LC - 4 Liter Cube</u>
Relinquished by: _____	Received by: _____	Date: _____	Time: _____	<u>1LC - 1 Liter Cube</u>

Sample rejection : Reason: _____
 Temp. At Receipt 3 °C
 Check Applicable Field Wet Ice Blue Ice _____

Sample Integrity

Broken Containers	Yes	No	N/A
Custody Seals Intact	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
COC / Sample Label Agreement	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Proper Containers	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Samples Within Holding Times	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
All Samples on COC Received	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
W1 & D1 Filled to 100ml mark	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Headspace acceptable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Preservative Added (Date/Time) : _____

Matrix Codes

DW = Drinking Water S = Soil O = Other
 WW = Wastewater SL = Sludge
 GW = Groundwater P = Paint
 SW = Surface Water V = Vegetation

Collection Types

G - Grab
 C8 - 8Hr
 Composite
 C12 - 12Hr
 Composite
 C24 - 24Hr
 Composite
 C - Composi

Preservative Codes

N1 = Nitric Acid (HNO₃)
 SA = Sulfuric Acid (H₂SO₄)
 HA = Hydrochloric Acid (HCl)
 SH = Sodium Hydroxide (NaOH)
 ST = Sodium Thiosulfate
 ZN = Zinc Acetate
 SS = Sodium Sulfite
 AA = Ascorbic Acid
 R = Refrigerated (<4° C)

Initial [Signature]

Comments:

Brandenburg WWTP
PO Box 305
Brandenburg, KY, 40108

Page 1 of 2

Beckmar Certificate Of Analysis 200128014

200128014.01		Collection Date: 01/28/2020 10:00 AM					Sampled By: Dillan Jopin		
Project: Wastewater		Sample Description: Brandenburg WWTP Effluent					Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Total Suspended Solids	Total Suspended Solids	42	mg/L	6	C24	SM 2540D 21st	01/29/2020 04:30 PM	DKL	
Nitrate	Nitrate-N	23.3	mg/L	0.2	C24	SM 4110B 21st	01/28/2020 07:19 PM	CK	
Nitrite	Nitrite-N	0.2	mg/L	0.2	C24	SM 4110B 21st	01/28/2020 07:19 PM	CK	
Total Nitrogen	Total Nitrogen	30.3	mg/L		C24	SM 4500N A	02/04/2020 01:20 PM	PGR	
CBOD	CBOD	16	mg/L	4	C24	SM 5210B 21st	01/29/2020 04:30 PM	MDC	

200128014.02		Collection Date: 01/28/2020 10:00 AM					Sampled By: Dillan Jopin		
Project: Wastewater		Sample Description: Brandenburg WWTP Effluent					Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Ammonia	Ammonia	<0.2	mg/L	0.2	C24	SM 4500-NH3 D 21st	01/29/2020 04:30 PM	MDC	
Total Kjeldahl Nitrogen	Total Kjeldahl Nitrogen (TKN)	6.8	mg/L	0.2	C24	SM 4500-Norg/D 21st	02/03/2020 09:45 AM	PGR	
Total Phosphorous	Total Phosphorus	5.82	mg/L	0.03	C24	SM 4500-P B.5/E 21st	01/30/2020 11:00 AM	MDC	

200128014.03		Collection Date: 01/28/2020 10:00 AM					Sampled By: Dillan Jopin		
Project: Wastewater		Sample Description: Brandenburg WWTP Effluent					Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
E-Coli / WW	E. coli	<1	col/100mL	1	Grab	SM 9223B	01/28/2020 12:20 PM	ANK	

200128014.04		Collection Date: 01/28/2020 10:30 AM					Sampled By: Daniel Kidd		
Project: Wastewater		Sample Description: Brandenburg WWTP Effluent					Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Chlorine-Total	Chlorine, Total	0.010	mg/L	0.01	Grab	HACH 8167	01/28/2020 10:30 AM	DAK	
D.O.	Dissolved Oxygen	14.5	mg/L	0.1	Grab	SM 4500-O G 21st	01/28/2020 10:30 AM	DAK	
pH	pH	7.78	SU		Grab	SM4500 H+ B	01/28/2020 10:30 AM	DAK	
Temperature	Temperature	8.8	C		Grab	SM 2550B 21st	01/28/2020 10:30 AM	DAK	

Brandenburg WWTP
PO Box 305
Brandenburg , KY, 40108

Page 2 of 2

Beckmar Certificate Of Analysis 200128014

200128014.05		Collection Date: 01/28/2020 10:00 AM					Sampled By: Dillan Jopin		
Project: Wastewater		Sample Description: Brandenburg WWTP Influent					Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Total Suspended Solids	Total Suspended Solids	236	mg/L	6	C24	SM 2540D 21st	01/29/2020 04:30 PM	DKL	
CBOD	CBOD	361	mg/L	4	C24	SM 5210B 21st	01/29/2020 04:30 PM	MDC	

200128014.06		Collection Date: 01/28/2020 10:00 AM					Sampled By: Dillan Jopin		
Project: Wastewater		Sample Description: Brandenburg WWTP Influent					Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Ammonia	Ammonia	41.8	mg/L	0.2	C24	SM 4500-NH3 D 21st	01/29/2020 04:30 PM	MDC	

Thank You,



Paul Barker
Lab Manager

Beckmar Environmental Laboratory
 3251 Ruckriegel Parkway
 Louisville, KY 40299
 Phone: (502) 266-6533
 Fax: (502) 266-6446

Beckmar

**CHAIN OF CUSTODY
 AND ANALYTICAL REQUEST**

*Job ID:200128014



Brandenburg WWTP

Month: January Year: 2020

Special Instructions:

Calibration ID: DK20000128

Facility Information Client Name <u>Brandenburg WWTP</u> Address <u>Buttermilk Falls Rd.</u> City, St, ZIP <u>Brandenburg, KY 40108</u> Phone _____		Send Results To: (same as client info <input type="checkbox"/> yes <input type="checkbox"/> no) Client Name <u>Brandenburg WWTP</u> Address <u>PO Box 305</u> City, State, ZIP <u>Brandenburg, KY 40108</u> Phone / Fax <u>270-547-0224</u> E-mail <u>tjhughes@bbtel.com</u>		Billing Information (same as client info <input type="checkbox"/> yes <input type="checkbox"/> no) Client Name <u>Brandenburg WWTP</u> Address <u>PO Box 305</u> City, State, ZIP <u>Brandenburg, KY 40108</u> Contact Name: <u>Mr. Thomas J. Hughes</u>		PWS ID (if applicable) <u>KY0021474</u> Compliance (Y/N) <u>Y</u> State <u>KY</u> Samples chlorinated (Y/N) _____	
--	--	---	--	---	--	---	--

Collected by (please print): Dillon Supin (signature): [Signature] P.O. Number _____ 1 X Month

Bottle ID (Lab Use Only)	Collection		Sample Point / Description	Analysis Requested	Field Data				Collection Type (See Bottom Right)	Number of Containers	Type of Container (See Bottom Center)	Matrix Code (See Bottom Right)	Preservative Code (See Bottom Right)	Initial Laboratory Location	Preservative Added In-house (Y/N)
	Day Start / Stop	Time (24Hr) Start / Stop			pH (S.U.)	DO (Mg/L)	Cl ₂ (mg/L) Free Total	Temp. (°C)							
	<u>27</u>	<u>8</u>	Effluent	CBOD, TSS, NO2, NO3, Total Nitrogen					C24	1	P10	WW	R		
	<u>27</u>	<u>8</u>	Effluent	TKN, NH3, TP					C24	1	P10	WW	SA		
	<u>28</u>	<u>10</u>	Effluent	E-Coli					G	1	W1	WW	ST		
	<u>28</u>	<u>10:30</u>	Effluent	Field Data					G			WW			
			Effluent Flow <u>.222</u>												
	<u>27</u>	<u>8</u>	Influent	CBOD, TSS					C24	1	P10	WW	R		
			Influent Flow <u>225.533</u>												

Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date: <u>Jan. 28, 2020</u>	Time: <u>10:30</u>	Type of Container G10 = 1000ml Glass G5 = 500ml Glass P10 = 1000ml Plastic H40 = 40ml Headspace SG = 16 Oz Glass - Soil W1 = 120ml Plastic Sterile D1 = 120ml Plastic Sterile P25 = 250ml Plastic P1 = 100ml Plastic 4LC = 4 Liter Cube 1LC = 1 Liter Cube	Sample rejection : Reason: _____ Temp. At Receipt <u>3</u> °C Check Applicable Field Wet Ice <input checked="" type="checkbox"/> Blue Ice _____	Matrix Codes DW = Drinking Water S = Soil O = Other WW = Wastewater SL = Sludge GW = Groundwater P = Paint SW = Surface Water V = Vegetation																																					
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date: <u>1-28-2020</u>	Time: <u>1208</u>		Sample Integrity <table border="1"> <tr><th></th><th>Yes</th><th>No</th><th>N/A</th></tr> <tr><td>Broken Containers</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>Custody Seals Intact</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>COC / Sample Label Agreement</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>Proper Containers</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>Samples Within Holding Times</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>All Samples on CDC Received</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>W1 & D1 Filled to 100ml mark</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>Headspace acceptable</td><td>—</td><td>—</td><td>—</td></tr> </table>			Yes	No	N/A	Broken Containers	—	—	—	Custody Seals Intact	—	—	—	COC / Sample Label Agreement	—	—	—	Proper Containers	—	—	—	Samples Within Holding Times	—	—	—	All Samples on CDC Received	—	—	—	W1 & D1 Filled to 100ml mark	—	—	—	Headspace acceptable	—	—	—	Collection Types G - Grab C8 - 8Hr Composite C12 - 12Hr Composite C24 - 24Hr Composite C - Composi
	Yes	No	N/A																																								
Broken Containers	—	—	—																																								
Custody Seals Intact	—	—	—																																								
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W1 & D1 Filled to 100ml mark	—	—	—																																								
Headspace acceptable	—	—	—																																								
Relinquished by:	Received by:	Date:	Time:	Preservative Codes NJ = Nitric Acid (HNO ₃) SA = Sulfuric Acid (H ₂ SO ₄) HA = Hydrochloric Acid (HCl) SH = Sodium Hydroxide (NaOH) ST = Sodium Thiosulfate ZN = Zinc Acetate SS = Sodium Sulfite AA = Ascorbic Acid R = Refrigerated (<4° C)	<table border="1"> <tr><th>Collection</th><th>Initial</th></tr> <tr><td>G - Grab</td><td></td></tr> <tr><td>C8 - 8Hr</td><td></td></tr> <tr><td>Composite</td><td></td></tr> <tr><td>C12 - 12Hr</td><td></td></tr> <tr><td>Composite</td><td></td></tr> <tr><td>C24 - 24Hr</td><td></td></tr> <tr><td>Composite</td><td></td></tr> <tr><td>C - Composi</td><td></td></tr> </table>	Collection	Initial	G - Grab		C8 - 8Hr		Composite		C12 - 12Hr		Composite		C24 - 24Hr		Composite		C - Composi																					
Collection	Initial																																										
G - Grab																																											
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Composite																																											
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Brandenburg WWTP
PO Box 305
Brandenburg, KY, 40108

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Beckmar Certificate Of Analysis 200204038

200204038.01			Collection Date: 02/04/2020 08:30 AM				Sampled By: D. J. Lyon		
Project: Wastewater			Sample Description: Brandenburg WWTP Effluent				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Total Suspended Solids	Total Suspended Solids	24	mg/L	6	C24	SM 2540D 21st	02/05/2020 04:30 PM	DKL	
Nitrate	Nitrate-N	19.1	mg/L	0.2	C24	SM 4110B 21st	02/04/2020 04:13 PM	CK	
Nitrite	Nitrite-N	0.2	mg/L	0.2	C24	SM 4110B 21st	02/04/2020 04:13 PM	CK	
Total Nitrogen	Total Nitrogen	31.5	mg/L		C24	SM 4500N A	02/12/2020 03:00 PM	PGR	
CBOD	CBOD	10	mg/L	4	C24	SM 5210B 21st	02/05/2020 04:30 PM	MDC	

200204038.02			Collection Date: 02/04/2020 08:30 AM				Sampled By: D. J. Lyon		
Project: Wastewater			Sample Description: Brandenburg WWTP Effluent				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Ammonia	Ammonia	8.1	mg/L	0.2	C24	SM 4500-NH3 D 21st	02/05/2020 04:30 PM	MDC	
Total Kjeldahl Nitrogen	Total Kjeldahl Nitrogen (TKN)	12.2	mg/L	0.2	C24	SM 4500-Norg/D 21st	02/10/2020 09:35 AM	CK	
Total Phosphorous	Total Phosphorous	6.50	mg/L	0.03	C24	SM 4500-P B.5/E 21st	02/06/2020 02:00 PM	MDC	

200204038.03			Collection Date: 02/04/2020 09:20 AM				Sampled By: D. J. Lyon		
Project: Wastewater			Sample Description: Brandenburg WWTP Effluent				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
E-Coli / WW	E. coli	<1	col/100mL	1	Grab	SM 9223B	02/04/2020 03:50 PM	RLB	

200204038.04			Collection Date: 02/04/2020 09:40 AM				Sampled By: Daniel Kidd		
Project: Wastewater			Sample Description: Brandenburg WWTP Effluent				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Chlorine-Total	Chlorine, Total	0.010	mg/L	0.01	Grab	HACH 8167	02/04/2020 09:40 AM	DAK	
D.O.	Dissolved Oxygen	13.3	mg/L	0.1	Grab	SM 4500-O G 21st	02/04/2020 09:40 AM	DAK	
pH	pH	7.81	SU		Grab	SM4500 H+ B	02/04/2020 09:40 AM	DAK	
Temperature	Temperature	12.8	C		Grab	SM 2550B 21st	02/04/2020 09:40 AM	DAK	

Brandenburg WWTP
PO Box 305
Brandenburg , KY, 40108

Page 2 of 2

Beckmar Certificate Of Analysis 200204038

200204038.05			Collection Date: 02/04/2020 08:30 AM				Sampled By: D. J. Lyon		
Project: Wastewater			Sample Description: Brandenburg WWTP Influent				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Total Suspended Solids	Total Suspended Solids	474	mg/L	6	C24	SM 2540D 21st	02/05/2020 04:30 PM	DKL	
CBOD	CBOD	206	mg/L	4	C24	SM 5210B 21st	02/05/2020 04:30 PM	MDC	

200204038.06			Collection Date: 02/04/2020 08:30 AM				Sampled By: D. J. Lyon		
Project: Wastewater			Sample Description: Brandenburg WWTP Influent				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Ammonia	Ammonia	42.6	mg/L	0.2	C24	SM 4500-NH3 D 21st	02/05/2020 04:30 PM	MDC	

Thank You,



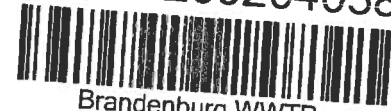
Paul Barker
Lab Manager

Beckmar Environmental Laboratory
 3251 Ruckriegel Parkway
 Louisville, KY 40299
 Phone: (502) 266-6533
 Fax: (502) 266-6446



CHAIN OF CUSTODY AND ANALYTICAL REQUEST

*Job ID: 200204038



Brandenburg WWTP

Month: 2 Year: 2020

Special Instructions:

Calibration ID: DK20200204

Facility Information Client Name <u>Brandenburg WWTP</u> Address <u>Buttermilk Falls Rd.</u> City, St, ZIP <u>Brandenburg, KY 40108</u> Phone _____		Send Results To: (same as client info <input type="checkbox"/> yes <input type="checkbox"/> no) Client Name <u>Brandenburg WWTP</u> Address <u>PO Box 305</u> City, State, ZIP <u>Brandenburg, KY 40108</u> Phone / Fax <u>270-547-0224</u> E-mail <u>tjhughes@bbtel.com</u> (signature): <u>[Signature]</u>		Billing Information (same as client info <input type="checkbox"/> yes <input type="checkbox"/> no) Client Name <u>Brandenburg WWTP</u> Address <u>PO Box 305</u> City, State, ZIP <u>Brandenburg, KY 40108</u> Contact Name: <u>Mr. Thomas J. Hughes</u>		PWS ID (if applicable) <u>KY0021474</u> Compliance (Y/N) <u>Y</u> State <u>KY</u> Samples chlorinated (Y/N) _____	
Collected by (please print): _____ (signature): <u>[Signature]</u>		P.O. Number _____		1 X Month			

Bottle ID (Lab Use Only)	Collection		Sample Point / Description	Analysis Requested	Field Data				Collection Type (See Bottom Right)	Number of Containers	Type of Container (See Bottom Center)	Matrix Code (See Bottom Right)	Preservative Code (See Bottom Right)	Initial Laboratory Location	Preservative Added in-house (Y/N)
	Day Start / Stop	Time (24Hr) Start / Stop			pH (S.U.)	DO (Mg/L)	Cl ₂ (mg/L)								
<u>3</u>	<u>4</u>	<u>8:30</u>	Effluent	CBOD, TSS, NO2, NO3, Total Nitrogen			Free	Total							
<u>3</u>	<u>4</u>	<u>8:30</u>	Effluent	TKN, NH3, TP											
<u>4</u>	<u>0920</u>		Effluent	E-Coli											
<u>2-4-20</u>	<u>0940</u>		Effluent	Field Data	<u>7.8</u>	<u>13.3</u>	<u>0.0</u>	<u>12.8</u>							
			Effluent Flow <u>000.248</u>												
<u>3</u>	<u>4</u>	<u>8:30</u>	Influent	CBOD, TSS											
			Influent Flow <u>000.229</u>												

Relinquished by: <u>DJ Lyon</u>	Received by: <u>[Signature]</u>	Date: <u>2/4/2020</u>	Time: <u>0943</u>	Type of Container G10 = 1000ml Glass G5 = 500ml Glass P10 = 1000ml Plastic H40 = 40ml Headspace SG = 16 Oz Glass - Soil W1 = 120ml Plastic Sterile D1 = 120ml Plastic Sterile P25 = 250ml Plastic P1 = 100ml Plastic 4LC = 4 Liter Cube 1LC = 1 Liter Cube	Sample rejection : Reason: Temp. At Receipt <u>3</u> °C Check Applicable Field Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/>	Matrix Codes DW = Drinking Water S = Soil O = Other WW = Wastewater SL = Sludge GW = Groundwater P = Paint SW = Surface Water V = Vegetation	
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date: <u>2-4-20</u>	Time: <u>1509</u>		Sample Integrity Yes No N/A Broken Containers <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Custody Seals Intact <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> COC / Sample Label Agreement <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Proper Containers <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Samples Within Holding Times <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> All Samples on COC Received <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> W1 & D1 Filled to 100ml mark <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Headspace acceptable <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>		Collection Types G - Grab C8 - 8Hr Composite C12 - 12Hr Composite C24 - 24Hr Composite C - Composi
Relinquished by:	Received by:	Date:	Time:		Preservative Codes Ni = Nitric Acid (HNO ₃) SA = Sulfuric Acid (H ₂ SO ₄) HA = Hydrochloric Acid (HCl) SH = Sodium Hydroxide (NaOH) ST = Sodium Thiosulfate ZN = Zinc Acetate SS = Sodium Sulfite AA = Ascorbic Acid R = Refrigerated (<4° C)		
Relinquished by:	Received by:	Date:	Time:				
Relinquished by:	Received by:	Date:	Time:				
Relinquished by:	Received by:	Date:	Time:				
Comments: _____				Preservative Added (Date/Time) _____		Initial <u>KW</u>	

Brandenburg WWTP
PO Box 305
Brandenburg , KY, 40108

Page 1 of 2

Beckmar Certificate Of Analysis 200211011

200211011.01			Collection Date: 02/11/2020 08:00 AM				Sampled By: Dillan Jopin		
Project: Wastewater			Sample Description: Brandenburg WWTP Effluent				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Total Suspended Solids	Total Suspended Solids	46	mg/L	6	C24	SM 2540D 22nd Ed.	02/12/2020 04:30 PM	DKL	
Nitrate	Nitrate-N	16.0	mg/L	0.2	C24	SM 4110B 22nd Ed.	02/11/2020 04:18 PM	CK	
Nitrite	Nitrite-N	0.2	mg/L	0.2	C24	SM 4110B 22nd Ed.	02/11/2020 04:18 PM	CK	
Total Nitrogen	Total Nitrogen	35.5	mg/L		C24	SM 4500N A	02/20/2020 12:16 PM	CK	
CBOD	CBOD	18	mg/L	4	C24	SM 5210B (2011)	02/12/2020 04:30 PM	MDC	

200211011.02			Collection Date: 02/11/2020 08:00 AM				Sampled By: Dillan Jopin		
Project: Wastewater			Sample Description: Brandenburg WWTP Effluent				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Ammonia	Ammonia	12.6	mg/L	0.2	C24	SM 4500-NH3 D (2011)	02/12/2020 04:30 PM	MDC	
Total Kjeldahl Nitrogen	Total Kjeldahl Nitrogen (TKN)	19.3	mg/L	0.2	C24	SM 4500-Norg/D 22nd Ed.	02/17/2020 09:20 AM	CK	
Total Phosphorous	Total Phosphorus	5.82	mg/L	0.03	C24	SM 4500-P B.5/E 21st	02/13/2020 01:00 PM	MDC	

200211011.03			Collection Date: 02/11/2020 09:30 AM				Sampled By: Daniel Kidd		
Project: Wastewater			Sample Description: Brandenburg WWTP Effluent				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
E-Coli / WW	E. coli	<1	col/100mL	1	Grab	SM 9223B	02/11/2020 01:00 PM	ANK	

200211011.04			Collection Date: 02/11/2020 09:18 AM				Sampled By: Daniel Kidd		
Project: Wastewater			Sample Description: Brandenburg WWTP Effluent				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Chlorine-Total	Chlorine, Total	0.01	mg/L	0.01	Grab	HACH 8167	02/11/2020 09:18 AM	DAK	
D.O.	Dissolved Oxygen	10.7	mg/L	0.1	Grab	SM 4500-O G 21st	02/11/2020 09:18 AM	DAK	
pH	pH	7.83	SU		Grab	SM4500 H+ B	02/11/2020 09:18 AM	DAK	
Temperature	Temperature	9.2	C		Grab	SM 2550B 21st	02/11/2020 09:18 AM	DAK	

Brandenburg WWTP
PO Box 305
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Beckmar Certificate Of Analysis 200211011

200211011.05			Collection Date: 02/11/2020 08:00 AM				Sampled By: Dillan Jopin		
Project: Wastewater			Sample Description: Brandenburg WWTP Influent				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Total Suspended Solids	Total Suspended Solids	244	mg/L	6	C24	SM 2540D 22nd Ed.	02/12/2020 04:30 PM	DKL	
CBOD	CBOD	334	mg/L	4	C24	SM 5210B (2011)	02/12/2020 04:30 PM	MDC	

200211011.06			Collection Date: 02/11/2020 08:00 AM				Sampled By: Dillan Jopin		
Project: Wastewater			Sample Description: Brandenburg WWTP Influent				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Ammonia	Ammonia	35.7	mg/L	0.2	C24	SM 4500-NH3 D (2011)	02/12/2020 04:30 PM	MDC	

Thank You,



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CHAIN OF CUSTODY AND ANALYTICAL REQUEST

*Job ID:200211011



Brandenburg WWTP

Month: Feb Year: 2020

Special Instructions:

Calibration ID: OK200211

Facility Information		Send Results To: (same as client info <input type="checkbox"/> yes <input type="checkbox"/> no)		Billing Information (same as client info <input type="checkbox"/> yes <input type="checkbox"/> no)		PWS ID (if applicable) KY0021474	
Client Name	Brandenburg WWTP	Client Name	Brandenburg WWTP	Client Name	Brandenburg WWTP	Compliance (Y/N)	Y
Address	Buttermilk Falls Rd.	Address	PO Box 305	Address	PO Box 305	State	KY
Cty, St, ZIP	Brandenburg, KY 40108	City, State, ZIP	Brandenburg, KY 40108	City, State, ZIP	Brandenburg, KY 40108	Samples chlorinated (Y/N)	
Phone		Phone / Fax	270-547-0224	Contact Name:	Mr. Thomas J. Hughes		
E-mail	tjhughes@bbtel.com						

Collected by (please print): D. J. Kidd (signature): [Signature] P.O. Number: _____ 1 X Month

Bottle ID (Lab Use Only)	Collection		Sample Point / Description	Analysis Requested	Field Data				Collection Type (See Bottom Right)	Number of Containers	Type of Container (See Bottom: Center)	Matrix Code (See Bottom Right)	Preservative Code (See Bottom Right)	Initial Laboratory Location	Preservative Added in-house (Y/N)
	Day Start / Stop	Time (24Hr) Start / Stop			pH (S.U.)	DO (Mg/L)	Cl ₂ (mg/L) Free Total	Temp. (°C)							
01	10/11	8:8	Effluent	CBOD, TSS, NO2, NO3, Total Nitrogen					C24	1	P10	WW	R	R2	N
02	10/11	8:8	Effluent	TKN, NH3, TP					C24	1	P10	WW	SA	R2	N
03	11	0930	Effluent	E-Coli					G	1	W1	WW	ST	R2	N
04	11	0918	Effluent	Field Data					G		WW			R2	N
Effluent Flow			.283												
05	10/11	8:8	Influent	CBOD, TSS					C24	1	P10	WW	R	R2	N
06			Influent Flow	266,942											

Relinquished by:	Received by:	Date:	Time:	Type of Container G10 = 1000ml Glass G5 = 500ml Glass P10 = 1000ml Plastic H40 = 40ml Headpace SG = 16 Oz Glass - Soil W1 = 120ml Plastic Sterile D1 = 120ml Plastic Sterile P25 = 250ml Plastic P1 = 100ml Plastic 4LC - 4 Liter Cube 1LC - 1 Liter Cube	Sample rejection : Reason:	Matrix Codes DW = Drinking Water S = Soil O = Other WW = Wastewater SL = Sludge GW = Groundwater P = Paint SW = Surface Water V = Vegetation	
Relinquished by:	Received by:	Date:	Time:		Temp. At Receipt: <u>3</u> °C		Preservative Codes NI = Nitric Acid (HNO ₃) SA = Sulfuric Acid (H ₂ SO ₄) HA = Hydrochloric Acid (HCl) SH = Sodium Hydroxide (NaOH) ST = Sodium Thiosulfate ZN = Zinc Acetate SS = Sodium Sulfite AA = Ascorbic Acid R = Refrigerated (<4° C)
Relinquished by:	Received by:	Date:	Time:		Check Applicable Field: Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/>		
Relinquished by:	Received by:	Date:	Time:		Sample Integrity:		
Relinquished by:	Received by:	Date:	Time:		Broken Containers: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Relinquished by:	Received by:	Date:	Time:		Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Relinquished by:	Received by:	Date:	Time:	COC / Sample Label Agreement: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Relinquished by:	Received by:	Date:	Time:	Proper Containers: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Relinquished by:	Received by:	Date:	Time:	Samples Within Holding Times: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Relinquished by:	Received by:	Date:	Time:	All Samples on COC Received: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Relinquished by:	Received by:	Date:	Time:	W1 & D1 Filled to 100ml mark: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Relinquished by:	Received by:	Date:	Time:	Headspace acceptable: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Comments:				Preservative Added (Date/Time):	Collection Types:	Initial: <u>[Signature]</u>	

Brandenburg WWTP
PO Box 305
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Beckmar Certificate Of Analysis 200218018

200218018.01			Collection Date: 02/18/2020 08:00 AM				Sampled By: D. J. Lyon		
Project: Wastewater			Sample Description: Brandenburg WWTP Effluent				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Total Suspended Solids	Total Suspended Solids	45	mg/L	6	C24	SM 2540D 22nd Ed.	02/19/2020 04:30 PM	DKL	
Nitrate	Nitrate-N	12.2	mg/L	0.2	C24	SM 4110B 22nd Ed.	02/18/2020 04:04 PM	CK	
Nitrite	Nitrite-N	<0.2	mg/L	0.2	C24	SM 4110B 22nd Ed.	02/18/2020 04:04 PM	CK	
Total Nitrogen	Total Nitrogen	31.2	mg/L		C24	SM 4500N A	02/27/2020 08:30 AM	PGR	
CBOD	CBOD	14	mg/L	4	C24	SM 5210B (2011)	02/19/2020 04:30 PM	MDC	
200218018.02			Collection Date: 02/18/2020 08:00 AM				Sampled By: D. J. Lyon		
Project: Wastewater			Sample Description: Brandenburg WWTP Effluent				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Ammonia	Ammonia	16.7	mg/L	0.2	C24	SM 4500-NH3 D (2011)	02/19/2020 04:30 PM	MDC	
Total Kjeldahl Nitrogen	Total Kjeldahl Nitrogen (TKN)	18.8	mg/L	0.2	C24	SM 4500-Norg/D 22nd Ed.	02/24/2020 09:33 AM	CK	
Total Phosphorous	Total Phosphorus	5.73	mg/L	0.03	C24	SM 4500-P B.5/E 21st	02/20/2020 01:00 AM	MDC	
200218018.03			Collection Date: 02/18/2020 10:00 AM				Sampled By: Daniel Kidd		
Project: Wastewater			Sample Description: Brandenburg WWTP Effluent				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
E-Coli / WW	E. coli	<1	col/100mL	1	Grab	SM 9223B	02/18/2020 02:00 PM	MDC	
200218018.04			Collection Date: 02/18/2020 09:15 AM				Sampled By: Daniel Kidd		
Project: Wastewater			Sample Description: Brandenburg WWTP Effluent				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Chlorine-Total	Chlorine, Total	0.01	mg/L	0.01	Grab	HACH 8167	02/18/2020 09:15 AM	DAK	
D.O.	Dissolved Oxygen	9.8	mg/L	0.1	Grab	SM 4500-O G 21st	02/18/2020 09:15 AM	DAK	
pH	pH	8.23	SU		Grab	SM4500 H+ B	02/18/2020 09:15 AM	DAK	
Temperature	Temperature	11.2	C		Grab	SM 2550B 21st	02/18/2020 09:15 AM	DAK	

Brandenburg WWTP
PO Box 305
Brandenburg , KY, 40108

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Beckmar Certificate Of Analysis 200218018

200218018.05			Collection Date: 02/18/2020 08:00 AM				Sampled By: D. J. Lyon	
Project: Wastewater			Sample Description: Brandenburg WWTP Influent				Matrix: Wastewater	
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst
Total Suspended Solids	Total Suspended Solids	214	mg/L	6	C24	SM 2540D 22nd Ed.	02/19/2020 04:30 PM	DKL
CBOD	CBOD	220	mg/L	4	C24	SM 5210B (2011)	02/19/2020 04:30 PM	MDC

200218018.06			Collection Date: 02/18/2020 08:00 AM				Sampled By: D. J. Lyon	
Project: Wastewater			Sample Description: Brandenburg WWTP Influent				Matrix: Wastewater	
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst
Ammonia	Ammonia	33.9	mg/L	0.2	C24	SM 4500-NH3 D (2011)	02/19/2020 04:30 PM	MDC

Thank You,



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CHAIN OF CUSTODY AND ANALYTICAL REQUEST

* Job ID: 200218018



Brandenburg WWTP

Month: 2 Year: 20

Special Instructions: _____ Calibration ID: DK20200218

Facility Information Client Name <u>Brandenburg WWTP</u> Address <u>Buttermilk Falls Rd.</u> City, St, ZIP <u>Brandenburg, KY 40108</u> Phone _____		Send Results To: (same as client info <input type="checkbox"/> yes <input type="checkbox"/> no) Client Name <u>Brandenburg WWTP</u> Address <u>PO Box 305</u> City, State, ZIP <u>Brandenburg, KY 40108</u> Phone / Fax <u>270-547-0224</u> E-mail <u>tjhughes@bbtel.com</u>		Billing Information (same as client info <input type="checkbox"/> yes <input type="checkbox"/> no) Client Name <u>Brandenburg WWTP</u> Address <u>PO Box 305</u> City, State, ZIP <u>Brandenburg, KY 40108</u> Contact Name: <u>Mr. Thomas J. Hughes</u>		PWS ID (if applicable) <u>KY0021474</u> Compliance (Y/N) <u>Y</u> State <u>KY</u> Samples chlorinated (Y/N) _____	
Collected by (please print): <u>DJ Lyon / P. Kidd</u>		(signature): <u>[Signature]</u> <u>P. Kidd</u>		P.O. Number _____		1 X Month	

Bottle ID (Lab Use Only)	Collection		Sample Point / Description	Analysis Requested	Field Data				Collection Type (See Bottom Right)	Number of Containers	Type of Container (See Bottom Center)	Matrix Code (See Bottom Right)	Preservative Code (See Bottom Right)	Initial Laboratory Location	Preservative Added in-house (Y/N)
	Day	Time (24Hr)			pH (S.U.)	DO (Mg/L)	Cl ₂ (mg/L)	Temp. (°C)							
<u>01</u>	<u>17</u>	<u>18 0800</u>	Effluent	CBOD, TSS, NO2, NO3, Total Nitrogen						C24	1	P10	WW	R	<u>R2</u> <u>N</u>
<u>02</u>	<u>17</u>	<u>18 0800</u>	Effluent	TKN, NH3, TP						C24	1	P10	WW	SA	<u>R2</u> <u>N</u>
<u>03</u>	<u>18</u>	<u>1000</u>	Effluent	E-Coli						G	1	W1	WW	ST	<u>R2</u> <u>N</u>
<u>04</u>	<u>18</u>	<u>0915</u>	Effluent	Field Data						G			WW		<u>XX</u>
			Effluent Flow <u>.247</u>												
<u>05</u>	<u>17</u>	<u>18 0800</u>	Influent	CBOD, TSS						C24	1	P10	WW	R	<u>R2</u> <u>N</u>
<u>06</u>			Influent Flow <u>240,099</u>	<u>NH3</u>											

Relinquished by: <u>DJ Lyon</u>	Received by: <u>[Signature]</u>	Date: <u>2-18-20</u>	Time: <u>1004</u>	Type of Container G10 = 1000ml Glass G5 = 500ml Glass P10 = 1000ml Plastic H40 = 40ml Headspace SG = 16 Oz Glass - Soil W1 = 120ml Plastic Sterile D1 = 120ml Plastic Sterile P25 = 250ml Plastic P1 = 100ml Plastic 4LC - 4 Liter Cube 1LC - 1 Liter Cube	Sample rejection : Reason: Temp. At Receipt <u>3</u> °C	Matrix Codes DW = Drinking Water S = Soil O = Other WW = Wastewater SL = Sludge GW = Groundwater P = Paint SW = Surface Water V = Vegetation	
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date: <u>2/18/20</u>	Time: <u>1326</u>		Check Applicable Field Wet Ice <input checked="" type="checkbox"/> Blue Ice _____		
Relinquished by: _____	Received by: _____	Date: _____	Time: _____		Sample Integrity Yes No N/A Broken Containers _____ <u>✓</u> _____ Custody Seals Intact _____ COC / Sample Label Agreement _____ Proper Containers _____ Samples Within Holding Times _____ All Samples on COC Received _____ W1 & D1 Filled to 100ml mark _____ Headspace acceptable _____ <u>✓</u>		
Relinquished by: _____	Received by: _____	Date: _____	Time: _____		Collection Types G - Grab C8 - 8Hr Composite C12 - 12Hr Composite C24 - 24Hr Composite C - Composi		Preservative Codes NI = Nitric Acid (HNO ₃) SA = Sulfuric Acid (H ₂ SO ₄) HA = Hydrochloric Acid (HCl) SH = Sodium Hydroxide (NaOH) ST = Sodium Thiosulfate ZN = Zinc Acetate SS = Sodium Sulfite AA = Ascorbic Acid R = Refrigerated (<4° C)
Relinquished by: _____	Received by: _____	Date: _____	Time: _____		Comments: _____ _____ _____		Initial <u>KE</u>
Relinquished by: _____	Received by: _____	Date: _____	Time: _____		Preservative Added (Date/Time) _____		

Brandenburg WWTP
PO Box 305
Brandenburg, KY, 40108

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Beckmar Certificate Of Analysis 200225052

200225052.01		Collection Date: 02/25/2020 08:00 AM					Sampled By: Dillan Jopin		
Project: Wastewater		Sample Description: Brandenburg WWTP Effluent					Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Total Suspended Solids	Total Suspended Solids	42	mg/L	6	C24	SM 2540D 22nd Ed.	02/26/2020 04:30 PM	DKL	
Nitrate	Nitrate-N	10.3	mg/L	0.2	C24	SM 4110B 22nd Ed.	02/26/2020 12:20 AM	CK	
Nitrite	Nitrite-N	0.2	mg/L	0.2	C24	SM 4110B 22nd Ed.	02/25/2020 05:29 PM	CK	
Total Nitrogen	Total Nitrogen	35.2	mg/L		C24	SM 4500N A	03/05/2020 01:00 PM	PGR	
CBOD	CBOD	19	mg/L	4	C24	SM 5210B (2011)	02/26/2020 04:30 PM	MDC	

200225052.02		Collection Date: 02/25/2020 08:00 AM					Sampled By: Dillan Jopin		
Project: Wastewater		Sample Description: Brandenburg WWTP Effluent					Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Ammonia	Ammonia	15.4	mg/L	0.2	C24	SM 4500-NH3 D (2011)	02/26/2020 04:30 PM	DKL	
Total Kjeldahl Nitrogen	Total Kjeldahl Nitrogen (TKN)	24.7	mg/L	0.2	C24	SM 4500-Norg/D 22nd Ed.	03/02/2020 09:38 AM	CK	
Total Phosphorous	Total Phosphorus	6.70	mg/L	0.03	C24	SM 4500-P B.5/E 21st	02/28/2020 02:00 PM	MDC	

200225052.03		Collection Date: 02/25/2020 09:30 AM					Sampled By: Daniel Kidd		
Project: Wastewater		Sample Description: Brandenburg WWTP Effluent					Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
E-Coli / WW	E. coli	<1	col/100mL	1	Grab	SM 9223B	02/25/2020 03:00 PM	ANK	

200225052.04		Collection Date: 02/25/2020 09:20 AM					Sampled By: Daniel Kidd		
Project: Wastewater		Sample Description: Brandenburg WWTP Effluent					Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Chlorine-Total	Chlorine, Total	0.01	mg/L	0.01	Grab	HACH 8167	02/25/2020 09:20 AM	DAK	
D.O.	Dissolved Oxygen	11.2	mg/L	0.1	Grab	SM 4500-O G 21st	02/25/2020 09:20 AM	DAK	
pH	pH	8.01	SU		Grab	SM4500 H+ B	02/25/2020 09:20 AM	DAK	
Temperature	Temperature	10.7	C		Grab	SM 2550B 21st	02/25/2020 09:20 AM	DAK	

Brandenburg WWTP
PO Box 305
Brandenburg , KY, 40108

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Beckmar Certificate Of Analysis 200225052

200225052.05		Collection Date: 02/25/2020 08:00 AM					Sampled By: Dillan Jopin		
Project: Wastewater		Sample Description: Brandenburg WWTP Influent					Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Total Suspended Solids	Total Suspended Solids	307	mg/L	6	C24	SM 2540D 22nd Ed.	02/26/2020 04:30 PM	DKL	
CBOD	CBOD	266	mg/L	4	C24	SM 5210B (2011)	02/26/2020 04:30 PM	MDC	

200225052.06		Collection Date: 02/25/2020 08:00 AM					Sampled By: Dillan Jopin		
Project: Wastewater		Sample Description: Brandenburg WWTP Influent					Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Ammonia	Ammonia	31.8	mg/L	0.2	C24	SM 4500-NH3 D (2011)	02/26/2020 04:30 PM	DKL	

Thank You,



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Beckmar

**CHAIN OF CUSTODY
 AND ANALYTICAL REQUEST**

*Job ID:200225052



Brandenburg WWTP

Month: 2 Year: 20

Special Instructions:

Calibration ID: DK20200225

Facility Information		Send Results To: (same as client info <input type="checkbox"/> yes <input type="checkbox"/> no)		Billing Information (same as client info <input type="checkbox"/> yes <input type="checkbox"/> no)		PWS ID (if applicable) <u>KY0021474</u>	
Client Name <u>Brandenburg WWTP</u>		Client Name <u>Brandenburg WWTP</u>		Client Name <u>Brandenburg WWTP</u>		Compliance (Y/N) <u>Y</u> State <u>KY</u>	
Address <u>Buttermilk Falls Rd.</u>		Address <u>PO Box 305</u>		Address <u>PO Box 305</u>		Samples chlorinated (Y/N)	
Cty, St, ZIP <u>Brandenburg, KY 40108</u>		City, State, ZIP <u>Brandenburg, KY 40108</u>		City, State, ZIP <u>Brandenburg, KY 40108</u>			
Phone		Phone / Fax <u>270-547-0224</u>		Contact Name: <u>Mr. Thomas J. Hughes</u>			
E-mail <u>tjhughes@bbtel.com</u>		E-mail		P.O. Number		1 X Month	
Collected by (please print): <u>Dillon Sp...</u>		(signature): <u>Dillon Sp...</u>					

Bottle ID (Lab Use Only)	Collection		Sample Point / Description	Analysis Requested	Field Data				Collection Type (See Bottom Right)	Number of Containers	Type of Container (See Bottom Center)	Matrix Code (See Bottom Right)	Preservative Code (See Bottom Right)	Initial Laboratory Location	Preservative Added in-house (Y/N)
	Day Start / Stop	Time (24Hr) Start / Stop			pH (S.U.)	DO (Mg/L)	Cl ₂ (mg/L) Free Total	Temp. (°C)							
01	24	0800	Effluent	CBOD, TSS, NO2, NO3, Total Nitrogen					C24	1	P10	WW	R	R2	N
02	24	0800	Effluent	TKN, NH3, TP					C24	1	P10	WW	SA	R2	N
03	25	0930	Effluent	E-Coli					G	1	W1	WW	ST	B2	N
04	25	0920	Effluent	Field Data	8.01	11.2	0.01	10.7	G			WW		X	X
			Effluent Flow <u>309</u>												
05	24	0800	Influent	CBOD, TSS					C24	1	P10	WW	R	R2	N
06			Influent Flow <u>298, 153</u>	NH3										R2	N

Relinquished by: <u>Dillon Sp...</u>	Received by: <u>Dani K...</u>	Date: <u>2/25/20</u>	Time: <u>0935</u>	Type of Container G10 = 1000ml Glass G5 = 500ml Glass P10 = 1000ml Plastic H40 = 40ml Headspace SG = 16 Oz Glass - Soil W1 = 120ml Plastic Sterile D1 = 120ml Plastic Sterile P25 = 250ml Plastic P1 = 100ml Plastic 4LC - 4 Liter Cube 1LC - 1 Liter Cube	Sample rejection : Reason: Temp. At Receipt <u>3</u> °C Check Applicable Field <u>Wet Ice</u> <u>Blue Ice</u>	Matrix Codes DW = Drinking Water S = Soil O = Other WW = Wastewater SL = Sludge GW = Groundwater P = Paint SW = Surface Water V = Vegetation	
Relinquished by: <u>Dani K...</u>	Received by: <u>Kan Eng</u>	Date: <u>2-25-20</u>	Time: <u>1433</u>		Sample Integrity Broken Containers <u>—</u> <u>—</u> <u>—</u> Custody Seals Intact <u>—</u> <u>—</u> <u>—</u> COC / Sample Label Agreement <u>—</u> <u>—</u> <u>—</u> Proper Containers <u>—</u> <u>—</u> <u>—</u> Samples Within Holding Times <u>—</u> <u>—</u> <u>—</u> All Samples on COC Received <u>—</u> <u>—</u> <u>—</u> W1 & D1 Filled to 100ml mark <u>—</u> <u>—</u> <u>—</u> Headspace acceptable <u>—</u> <u>—</u> <u>—</u>		Collection Types G - Grab C8 - 8Hr Composite C12 - 12Hr Composite C24 - 24Hr Composite C - Composi
Relinquished by:	Received by:	Date:	Time:		Yes No N/A <u>—</u> <u>—</u> <u>—</u> <u>—</u> <u>—</u> <u>—</u> <u>—</u> <u>—</u> <u>—</u> <u>—</u> <u>—</u> <u>—</u> <u>—</u> <u>—</u> <u>—</u> <u>—</u> <u>—</u> <u>—</u> <u>—</u> <u>—</u> <u>—</u>		Preservative Codes NI = Nitric Acid (HNO ₃) SA = Sulfuric Acid (H ₂ SO ₄) HA = Hydrochloric Acid (HCl ₂) SH = Sodium Hydroxide (NaOH) ST = Sodium Thiosulfate ZN = Zinc Acetate SS = Sodium Sulfite AA = Ascorbic Acid R = Refrigerated (<4° C)
Relinquished by:	Received by:	Date:	Time:				
Relinquished by:	Received by:	Date:	Time:				
Relinquished by:	Received by:	Date:	Time:				
Comments:					Preservative Added (Date/Time) Initial <u>HE</u>		

Brandenburg WWTP
PO Box 305
Brandenburg, KY, 40108

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Beckmar Certificate Of Analysis 200303026

200303026.01			Collection Date: 03/03/2020 08:00 AM				Sampled By: Daniel Kidd		
Project: Wastewater			Sample Description: Brandenburg WWTP Effluent				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Total Suspended Solids	Total Suspended Solids	48	mg/L	6	C24	SM 2540D 22nd Ed.	03/04/2020 04:30 PM	DKL	
Nitrate	Nitrate-N	8.5	mg/L	0.2	C24	SM 4110B 22nd Ed.	03/03/2020 10:39 PM	CK	
Nitrite	Nitrite-N	0.3	mg/L	0.2	C24	SM 4110B 22nd Ed.	03/03/2020 10:39 PM	CK	
Total Nitrogen	Total Nitrogen	34.2	mg/L		C24	SM 4500N A	03/11/2020 02:00 PM	PGR	
CBOD	CBOD	19	mg/L	4	C24	SM 5210B (2011)	03/04/2020 04:30 PM	MDC	

200303026.02			Collection Date: 03/03/2020 08:00 AM				Sampled By: Daniel Kidd		
Project: Wastewater			Sample Description: Brandenburg WWTP Effluent				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Ammonia	Ammonia	18.3	mg/L	0.2	C24	SM 4500-NH3 D (2011)	03/04/2020 04:30 PM	MDC	
Total Kjeldahl Nitrogen	Total Kjeldahl Nitrogen (TKN)	25.4	mg/L	0.2	C24	SM 4500-Norg/D 22nd Ed.	03/09/2020 09:47 AM	CK	
Total Phosphorous	Total Phosphorus	6.99	mg/L	0.03	C24	SM 4500-P B.5/E 21st	03/05/2020 01:00 PM	MDC	

200303026.03			Collection Date: 03/03/2020 09:30 AM				Sampled By: Daniel Kidd		
Project: Wastewater			Sample Description: Brandenburg WWTP Effluent				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
E-Coli / WW	E. coli	60000	col/100mL	1	Grab	SM 9223B	03/03/2020 01:30 PM	ANK	

200303026.04			Collection Date: 03/03/2020 09:20 AM				Sampled By: Daniel Kidd		
Project: Wastewater			Sample Description: Brandenburg WWTP Effluent				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst	
Chlorine-Total	Chlorine, Total	0.010	mg/L	0.01	Grab	HACH 8167	03/03/2020 09:20 AM	DAK	
D.O.	Dissolved Oxygen	11.4	mg/L	0.1	Grab	SM 4500-O G 21st	03/03/2020 09:20 AM	DAK	
pH	pH	8.79	SU		Grab	SM4500 H+ B	03/03/2020 09:20 AM	DAK	
Temperature	Temperature	11.7	C		Grab	SM 2550B 21st	03/03/2020 09:20 AM	DAK	

Brandenburg WWTP
PO Box 305
Brandenburg, KY, 40108

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Beckmar Certificate Of Analysis 200303026

200303026.05		Collection Date: 03/03/2020 08:00 AM				Sampled By: Daniel Kidd		
Project: Wastewater		Sample Description: Brandenburg WWTP Influent				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst
Total Suspended Solids	Total Suspended Solids	138	mg/L	6	C24	SM 2540D 22nd Ed.	03/04/2020 04:30 PM	DKL
CBOD	CBOD	201	mg/L	4	C24	SM 5210B (2011)	03/04/2020 04:30 PM	MDC

200303026.06		Collection Date: 03/03/2020 08:00 AM				Sampled By: Daniel Kidd		
Project: Wastewater		Sample Description: Brandenburg WWTP Influent				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst
Ammonia	Ammonia	25.7	mg/L	0.2	C24	SM 4500-NH3 D (2011)	03/04/2020 04:30 PM	MDC

Thank You,



Paul Barker
Lab Manager

Beckmar Environmental Laboratory
 3251 Ruckriegel Parkway
 Louisville, KY 40299
 Phone: (502) 266-6533
 Fax: (502) 266-6446



CHAIN OF CUSTODY AND ANALYTICAL REQUEST

*Job ID:200303026



Brandenburg WWTP

Month: 3 Year: 20

Special Instructions:

Calibration ID: D20200303

Facility Information Client Name <u>Brandenburg WWTP</u> Address <u>Buttermilk Falls Rd.</u> City, St, ZIP <u>Brandenburg, KY 40108</u> Phone _____		Send Results To: (same as client info <input type="checkbox"/> yes <input type="checkbox"/> no) Client Name <u>Brandenburg WWTP</u> Address <u>PO Box 305</u> City, State, ZIP <u>Brandenburg, KY 40108</u> Phone / Fax <u>270-547-0224</u> E-mail <u>tjhughes@bbtel.com</u>		Billing Information (same as client info <input type="checkbox"/> yes <input type="checkbox"/> no) Client Name <u>Brandenburg WWTP</u> Address <u>PO Box 305</u> City, State, ZIP <u>Brandenburg, KY 40108</u> Contact Name: <u>Mr. Thomas J. Hughes</u>		PWS ID (if applicable) <u>KY0021474</u> Compliance (Y/N) <u>Y</u> State <u>KY</u> Samples chlorinated (Y/N) _____	
Collected by (please print): <u>Jonathan P. Kidd</u> (signature): <u>[Signature]</u>		P.O. Number _____		1 X Month		Collection Type (See Bottom Right) _____ Number of Containers _____ Type of Container (See Bottom: Center) _____ Matrix Code (See Bottom Right) _____ Preservative Code (See Bottom Right) _____ Initial Laboratory Location _____ Preservative Added In-house (Y/N) _____	

Bottle ID (Lab Use Only)	Collection		Sample Point / Description	Analysis Requested	Field Data				Collection Type (See Bottom Right)	Number of Containers	Type of Container (See Bottom: Center)	Matrix Code (See Bottom Right)	Preservative Code (See Bottom Right)	Initial Laboratory Location	Preservative Added In-house (Y/N)
	Day Start / Stop	Time (24Hr) Start / Stop			pH (S.U.)	DO (Mg/L)	Cl ₂ (mg/L) Free Total	Temp. (°C)							
2 <u>3</u>	3 <u>0800</u>	0800 <u>0800</u>	Effluent	CBOD, TSS, NO ₂ , NO ₃ , Total Nitrogen					C24	1	P10	WW	R		
2 <u>3</u>	3 <u>0800</u>	0800 <u>0800</u>	Effluent	TKN, NH ₃ , TP					C24	1	P10	WW	SA		
3 <u>3</u>	0930 <u>0930</u>		Effluent	E-Coli					G	1	W1	WW	ST		
3 <u>3</u>	0920 <u>0920</u>		Effluent	Field Data					G			WW			
			Effluent Flow <u>.374</u>												
2 <u>3</u>	3 <u>0800</u>	0800 <u>0800</u>	Influent	CBOD, TSS					C24	1	P10	WW	R		
			Influent Flow <u>355,572</u>												

Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date: <u>3/3/20</u>	Time: <u>0937</u>	Type of Container G10 = 1000ml Glass G5 = 500ml Glass P10 = 1000ml Plastic H40 - 40ml Headspace SG = 16 Oz Glass - Soil W1 = 120ml Plastic Sterile D1 = 120ml Plastic Sterile P25 = 250ml Plastic P1 = 100ml Plastic 4LC - 4 Liter Cube 1LC - 1 Liter Cube	Sample rejection : Reason: Temp. At Receipt <u>3</u> °C Check Applicable Field <u>Wet Ice</u> <u>Blue Ice</u>	Matrix Codes DW = Drinking Water S = Soil O = Other WW = Wastewater SL = Sludge GW = Groundwater P = Paint SW = Surface Water V = Vegetation	
Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date: <u>3-3-20</u>	Time: <u>1307</u>		Sample Integrity Broken Containers <u>✓</u> <u>✓</u> <u>---</u> Custody Seals Intact <u>✓</u> <u>---</u> <u>---</u> COC / Sample Label Agreement <u>✓</u> <u>---</u> <u>---</u> Proper Containers <u>✓</u> <u>---</u> <u>---</u> Samples Within Holding Times <u>✓</u> <u>---</u> <u>---</u> All Samples on COC Received <u>✓</u> <u>---</u> <u>---</u> W1 & D1 Filled to 100ml mark <u>✓</u> <u>---</u> <u>---</u> Headspace acceptable <u>---</u> <u>---</u> <u>✓</u>		Preservative Codes NI = Nitric Acid (HNO ₃) SA = Sulfuric Acid (H ₂ SO ₄) HA = Hydrochloric Acid (HCl) SH = Sodium Hydroxide (NaOH) ST = Sodium Thiosulfate ZN = Zinc Acetate SS = Sodium Sulfite AA = Ascorbic Acid R = Refrigerated (<4° C)
Relinquished by:	Received by:	Date:	Time:		Collection Types G - Grab C8 - 8Hr Composite C12 - 12Hr Composite C24 - 24Hr Composite C - Composi		
Relinquished by:	Received by:	Date:	Time:				
Relinquished by:	Received by:	Date:	Time:				
Relinquished by:	Received by:	Date:	Time:				
Comments:				Preservative Added (Date/Time)		Initial <u>[Signature]</u>	

Brandenburg WWTP
PO Box 305
Brandenburg , KY, 40108

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Beckmar Certificate Of Analysis 200305014

200305014.02			Collection Date: 03/05/2020 08:10 AM				Sampled By: Client	
Project: Wastewater			Sample Description: Resample				Matrix: Wastewater	
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst
E-Coli / WW	E. coli	<1	col/100mL	1	Grab	SM 9223B	03/05/2020 12:45 PM	ANK

200305014.03			Collection Date: 03/05/2020 07:45 AM				Sampled By: Client	
Project: Wastewater			Sample Description: Resample				Matrix: Wastewater	
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst
E-Coli / WW	E. coli	<1	col/100mL	1	Grab	SM 9223B	03/05/2020 12:45 PM	ANK

Thank You,

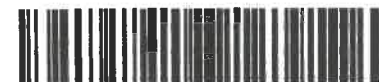


Paul Barker
Lab Manager



CHAIN OF CUSTODY AND ANALYTICAL REQUEST

*Job ID:200305014



Brandenburg WWTP

Month: 3 Year: 2020

Special Instructions:										Calibration ID: _____					
Facility Location & Contact Information			Send Results To: (same as client info <input type="checkbox"/> yes <input type="checkbox"/> no)			Billing Information (same as client info <input type="checkbox"/> yes <input type="checkbox"/> no)			Permit ID (if applicable)						
Client Name <u>Brandenburg</u>			Client Name _____			Client Name _____			Compliance (Y/N) _____ State: _____						
Address _____			Address _____			Address _____			Samples chlorinated (Y/N)						
City, St, ZIP _____			City, State, ZIP _____			City, State, ZIP _____									
Phone _____			Phone / Fax _____			Contact Name _____									
Contact _____			E-mail _____			A.P. Email _____									
Collected by (please print): <u>client</u>			(signature): <u>client</u>			P.O. Number: _____			Sample Frequency _____						
Bottle ID (Lab Use Only)	Collection		Project ID:	Analysis Requested	Field Data				Collection Type (See Bottom Right)	Number of Containers	Type of Container (See Bottom Center)	Matrix Code (See Bottom Right)	Preservative Code (See Bottom Right)	Initial Laboratory Location	Preservative Added in-house (Y/N)
	Day	Time			pH (S.U.)	DO (Mg/L)	Cl ₂ (mg/L) Free Total	Temp. (°C)							
<u>01</u>	<u>05</u>	<u>0745</u>	<u>EFF</u>	<u>Ecoli Resample #1</u>											
<u>02</u>	<u>05</u>	<u>0810</u>	<u>EFF</u>	<u>Ecoli Resample #2</u>											
Relinquished by: <u>[Signature]</u>		Received by: <u>[Signature]</u>		Date: <u>3-5-2020</u>	Time: <u>1122</u>	Type of Container		Sample rejection : Reason:			Matrix Codes				
Relinquished by:		Received by:		Date:	Time:	G10 = 1000ml Glass		Temp. At Receipt <u>3</u> °C			DW = Drinking Water S = Soil O = Other				
Relinquished by:		Received by:		Date:	Time:	G5 = 500ml Glass		Check Applicable Field Wet Ice <input checked="" type="checkbox"/> Blue Ice _____			WW = Wastewater SL = Sludge P = Paint				
Relinquished by:		Received by:		Date:	Time:	P10 = 1000ml Plastic		Sample Integrity			GW = Groundwater PW = Process Water				
Relinquished by:		Received by:		Date:	Time:	H40c = 40ml Headspace Clear		Yes No N/A			SW = Surface Water V = Vegetation				
Relinquished by:		Received by:		Date:	Time:	H40a = 40ml Headspace Amber		Broken Containers _____ / _____			Collection Types				
Relinquished by:		Received by:		Date:	Time:	SG = 16 Oz Glass - Soil		Custody Seals Intact _____ / _____			G - Grab				
Relinquished by:		Received by:		Date:	Time:	W1 = 120ml Plastic Sterile		COC / Sample Label Agreement _____ / _____			C8 - 8Hr				
Relinquished by:		Received by:		Date:	Time:	D1 = 120ml Plastic Sterile		Proper Containers _____ / _____			Composite				
Relinquished by:		Received by:		Date:	Time:	P25 = 250ml Plastic		Samples Within Holding Times _____ / _____			C12 - 12Hr				
Relinquished by:		Received by:		Date:	Time:	P1 = 100ml Plastic		All Samples on COC Received _____ / _____			Composite				
Relinquished by:		Received by:		Date:	Time:	4LC = 4 Liter Cube		W1 & D1 Filled to 100ml mark _____ / _____			C24 - 24Hr				
Relinquished by:		Received by:		Date:	Time:	1LC = 1 Liter Cube		Headspace acceptable _____ / _____			Composite				
Relinquished by:		Received by:		Date:	Time:	G2 = 250ml Glass		Preservative Added (Date/Time) _____			C - Composite				
Relinquished by:		Received by:		Date:	Time:	VA = 1000ml Virgin Amber Glass					Ni = Nitric Acid (HNO ₃)				
Relinquished by:		Received by:		Date:	Time:	A8 = 8oz Glass Amber					SA = Sulfuric Acid (H ₂ SO ₄)				
Relinquished by:		Received by:		Date:	Time:						C8 - 8Hr				
Relinquished by:		Received by:		Date:	Time:						HA = Hydrochloric Acid (HCl ₃)				
Relinquished by:		Received by:		Date:	Time:						SH = Sodium Hydroxide (NaOH)				
Relinquished by:		Received by:		Date:	Time:						ST = Sodium Thiosulfate				
Relinquished by:		Received by:		Date:	Time:						R = Refrigerated				
Relinquished by:		Received by:		Date:	Time:						SS = Sodium Sulfite				
Relinquished by:		Received by:		Date:	Time:						AA = Ascorbic Acid				
Relinquished by:		Received by:		Date:	Time:						ZN = Zinc Acetate				
Relinquished by:		Received by:		Date:	Time:						AC = Ammonium Chloride				
Comments:															

Initial
[Signature]

Brandenburg WWTP
PO Box 305
Brandenburg, KY, 40108

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Beckmar Certificate Of Analysis 200310009

200310009.01			Collection Date: 03/10/2020 08:00 AM				Sampled By: Daniel Kidd	
Project: Wastewater			Sample Description: Brandenburg WWTP Effluent				Matrix: Wastewater	
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst
Total Suspended Solids	Total Suspended Solids	65	mg/L	6	C24	SM 2540D 22nd Ed.	03/11/2020 04:30 PM	DKL
Nitrate	Nitrate-N	9.5	mg/L	0.2	C24	SM 4110B 22nd Ed.	03/10/2020 04:15 PM	CK
Nitrite	Nitrite-N	0.5	mg/L	0.2	C24	SM 4110B 22nd Ed.	03/10/2020 04:15 PM	CK
Total Nitrogen	Total Nitrogen	34.2	mg/L		C24	SM 4500N A	03/18/2020 09:00 AM	PGR
CBOD	CBOD	21	mg/L	4	C24	SM 5210B (2011)	03/11/2020 04:30 PM	MDC

200310009.02			Collection Date: 03/10/2020 08:00 AM				Sampled By: Daniel Kidd	
Project: Wastewater			Sample Description: Brandenburg WWTP Effluent				Matrix: Wastewater	
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst
Ammonia	Ammonia	19.0	mg/L	0.2	C24	SM 4500-NH3 D (2011)	03/11/2020 04:30 PM	MDC
Total Kjeldhal Nitrogen	Total Kjeldahl Nitrogen (TKN)	24.2	mg/L	0.2	C24	SM 4500-Norg/D 22nd Ed.	03/16/2020 10:10 AM	CK
Total Phosphorous	Total Phosphorus	6.09	mg/L	0.03	C24	SM 4500-P B.5/E 21st	03/12/2020 01:00 PM	MDC

200310009.03			Collection Date: 03/10/2020 09:10 AM				Sampled By: Daniel Kidd	
Project: Wastewater			Sample Description: Brandenburg WWTP Effluent				Matrix: Wastewater	
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst
E-Coli / WW	E. coli	60000	col/100mL	1	Grab	SM 9223B	03/10/2020 01:05 PM	MDC

200310009.04			Collection Date: 03/10/2020 08:50 AM				Sampled By: Daniel Kidd	
Project: Wastewater			Sample Description: Brandenburg WWTP Effluent				Matrix: Wastewater	
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst
Chlorine-Total	Chlorine, Total	0.01	mg/L	0.01	Grab	HACH 8167	03/10/2020 08:50 AM	DAK
D.O.	Dissolved Oxygen	10.3	mg/L	0.1	Grab	SM 4500-O G 21st	03/10/2020 08:50 AM	DAK
pH	pH	8.73	SU		Grab	SM4500 H+ B	03/10/2020 08:50 AM	DAK
Temperature	Temperature	14.3	C		Grab	SM 2550B 21st	03/10/2020 08:50 AM	DAK

Brandenburg WWTP
PO Box 305
Brandenburg , KY, 40108

Page 2 of 2

Beckmar Certificate Of Analysis 200310009

200310009.05		Collection Date: 03/10/2020 08:00 AM				Sampled By: Daniel Kidd		
Project: Wastewater		Sample Description: Brandenburg WWTP Influent				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst
Total Suspended Solids	Total Suspended Solids	588	mg/L	6	C24	SM 2540D 22nd Ed.	03/11/2020 04:30 PM	DKL
CBOD	CBOD	531	mg/L	4	C24	SM 5210B (2011)	03/11/2020 04:30 PM	MDC

200310009.06		Collection Date: 03/10/2020 08:00 AM				Sampled By: Daniel Kidd		
Project: Wastewater		Sample Description: Brandenburg WWTP Influent				Matrix: Wastewater		
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst
Ammonia	Ammonia	39.5	mg/L	0.2	C24	SM 4500-NH3 D (2011)	03/11/2020 04:30 PM	MDC

Thank You,



Paul Barker
Lab Manager

Beckmar Environmental Laboratory
 3251 Ruckriegel Parkway
 Louisville, KY 40299
 Phone: (502) 266-6533
 Fax: (502) 266-6446



CHAIN OF CUSTODY AND ANALYTICAL REQUEST

* Job ID: 200310009



Brandenburg WWTP

Month: 3 Year: 20

Special Instructions:

Calibration ID: OK 20200310

Facility Information Client Name: <u>Brandenburg WWTP</u> Address: <u>Buttermilk Falls Rd.</u> City, St, ZIP: <u>Brandenburg, KY 40108</u> Phone: _____		Send Results To: (same as client info <input type="checkbox"/> yes <input type="checkbox"/> no) Client Name: <u>Brandenburg WWTP</u> Address: <u>PO Box 305</u> City, State, ZIP: <u>Brandenburg, KY 40108</u> Phone / Fax: <u>270-547-0224</u> E-mail: <u>tjhughes@bbtel.com</u>		Billing Information (same as client info <input type="checkbox"/> yes <input type="checkbox"/> no) Client Name: <u>Brandenburg WWTP</u> Address: <u>PO Box 305</u> City, State, ZIP: <u>Brandenburg, KY 40108</u> Contact Name: <u>Mr. Thomas J. Hughes</u>		PWS ID (if applicable): <u>KY0021474</u> Compliance (Y/N): <u>Y</u> State: <u>KY</u> Samples chlorinated (Y/N): _____	
--	--	--	--	--	--	---	--

Collected by (please print): Dillon / O. Kidd (signature): [Signature] P.O. Number: _____ 1 X Month

Bottle ID (Lab Use Only)	Collection		Sample Point / Description	Analysis Requested	Field Data				Collection Type (See Bottom Right)	Number of Containers	Type of Container (See Bottom Center)	Matrix Code (See Bottom Right)	Preservative Code (See Bottom Right)	Initial Laboratory Location	Preservative Added in-house (Y/N)
	Day Start / Stop	Time (24Hr) Start / Stop			pH (S.U.)	DO (Mg/L)	Cl ₂ (mg/L) Free Total	Temp. (°C)							
	9/10	0800/0800	Effluent	CBOD, TSS, NO ₂ , NO ₃ , Total Nitrogen					C24	1	P10	WW	R		
	9/10	0800/0800	Effluent	TKN, NH ₃ , TP					C24	1	P10	WW	SA		
	10/10	0910	Effluent	E-Coli					G	1	W1	WW	ST		
	10/10	0850	Effluent	Field Data	8.73	10.3	0.01	14.3	G			WW			
			Effluent Flow	<u>232</u>											
	9/10	0800/0800	Influent	CBOD, TSS					C24	1	P10	WW	R		
			Influent Flow	<u>216,651</u>											

Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date: <u>3-10-2020</u>	Time: <u>0914</u>	Type of Container G10 = 1000ml Glass G5 = 500ml Glass P10 = 1000ml Plastic H40 = 40ml Headspace SG = 16 Oz Glass - Soil W1 = 120ml Plastic Sterile D1 = 120ml Plastic Sterile P25 = 250ml Plastic P1 = 100ml Plastic 4LC = 4 Liter Cube 1LC = 1 Liter Cube	Sample rejection: Reason: Temp. At Receipt: <u>3</u> °C Check Applicable Field: Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/>	Matrix Codes DW = Drinking Water S = Soil O = Other WW = Wastewater SL = Sludge GW = Groundwater P = Paint SW = Surface Water V = Vegetation																																					
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Brandenburg WWTP
PO Box 305
Brandenburg , KY, 40108

Page 1 of 1

Beckmar Certificate Of Analysis 200311010

200311010.01			Collection Date: 03/11/2020 01:07 PM				Sampled By: Client	
Project: E-coli			Sample Description: Effluent Resample 1				Matrix: Wastewater	
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst
E-Coli / WW	E. coli	31	col/100mL	1	Grab	SM 9223B	03/11/2020 03:10 PM	MDC

200311010.02			Collection Date: 03/11/2020 01:23 PM				Sampled By: Client	
Project: E-coli			Sample Description: Effluent Resample 2				Matrix: Wastewater	
Test Name	Parameter	Result	Unit	MDL	Type	Method	Analyzed Date/Time	Analyst
E-Coli / WW	E. coli	<1	col/100mL	1	Grab	SM 9223B	03/11/2020 03:10 PM	MDC

Thank You,



Paul Barker
Lab Manager



CHAIN OF CUSTODY AND ANALYTICAL REQUEST

* Job ID: 200311010



Brandenburg WWTP

Month: 3 Year: 20

Special Instructions:

Calibration ID: _____

Facility Location & Contact Information Client Name <u>Brandenburg</u> Address _____ City, St, ZIP _____ Phone _____ Contact _____		Send Results To: (same as client info <input type="checkbox"/> yes <input type="checkbox"/> no) Client Name _____ Address _____ City, State, ZIP _____ Phone / Fax _____ E-mail _____		Billing Information (same as client info <input type="checkbox"/> yes <input type="checkbox"/> no) Client Name _____ Address _____ City, State, ZIP _____ Contact Name _____ A.P. Email _____		Permit ID (if applicable) _____ Compliance (Y/N) _____ State: _____ Samples chlorinated (Y/N) _____															
Collected by (please print): <u>Client</u> (signature): <u>Client</u>		P.O. Number: _____		Sample Frequency _____		<table border="1"> <tr> <td>Collection Type (See Bottom Right)</td> <td>Number of Containers</td> <td>Type of Container (See Bottom Center)</td> <td>Matrix Code (See Bottom Right)</td> <td>Preservative Code (See Bottom Right)</td> <td>Initial Laboratory Location (See Bottom Right)</td> <td>Preservative Added in-house (Y/N)</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		Collection Type (See Bottom Right)	Number of Containers	Type of Container (See Bottom Center)	Matrix Code (See Bottom Right)	Preservative Code (See Bottom Right)	Initial Laboratory Location (See Bottom Right)	Preservative Added in-house (Y/N)							
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Bottle ID (Lab Use Only)	Collection		Project ID:	Analysis Requested	Field Data				Collection Type (See Bottom Right)	Number of Containers	Type of Container (See Bottom Center)	Matrix Code (See Bottom Right)	Preservative Code (See Bottom Right)	Initial Laboratory Location (See Bottom Right)	Preservative Added in-house (Y/N)
	Day	Time			pH (S.U.)	DO (Mg/L)	Cl ₂ (mg/L) Free Total	Temp. (°C)							
	<u>11</u>	<u>1307</u>		<u>E. coli Resample 1</u>											
	<u>11</u>	<u>1323</u>		<u>E. coli Resample 2</u>											

Relinquished by: <u>Client</u>	Received by: <u>Sam Davis</u>	Date: <u>3-11-20</u>	Time: <u>1328</u>	Type of Container G10 = 1000ml Glass G5 = 500ml Glass P10 = 1000ml Plastic H40c = 40ml Headspace Clear H40a = 40ml Headspace Amber SG = 16 Oz Glass - Soil W1 = 120ml Plastic Sterile D1 = 120ml Plastic Sterile P25 = 250ml Plastic P1 = 100ml Plastic 4LC = 4 Liter Cube 1LC = 1 Liter Cube G2 = 250ml Glass VA = 1000ml Virgin Amber Glass A8 = 8oz Glass Amber	Sample rejection : Reason: Temp. At Receipt <u>3</u> °C Check Applicable Field Wet Ice <input checked="" type="checkbox"/> Blue Ice _____	Matrix Codes DW = Drinking Water S = Soil O = Other WW = Wastewater SL = Sludge P = Paint GW = Groundwater PW = Process Water SW = Surface Water V = Vegetation																																																							
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Initial SD

INTERLOCAL AGREEMENT

Between the City of Brandenburg and the County of Meade

WHEREAS, the City of Brandenburg owns a parcel of land, more particularly described in Deed Book 301, Page 15 in the Office of the Meade County Clerk, which holds a wastewater treatment plant currently in use by the City of Brandenburg; and

WHEREAS, a portion of said property must be vacated to allow for the construction of the proposed NUCOR Steel plant, thereby making the wastewater treatment plant unusable; and

WHEREAS, it is understood that the City of Brandenburg will face a significant expense in building the new Wastewater Treatment Plant as a result of the NUCOR Steel construction; and

WHEREAS, there is an agreement for the City of Brandenburg to retain approximately five (5) acres of the above property for the construction of a new Wastewater Treatment Plant to be owned and controlled by the City of Brandenburg; and

WHEREAS, it is understood that the County of Meade will receive financial payments from NUCOR Steel; and

WHEREAS, it is the belief of both the County of Meade and the City of Brandenburg that the construction of NUCOR Steel will be of great benefit to the communities of both entities; and

WHEREAS, the County of Meade desires to contribute a portion of the cost of the new Wastewater Treatment Plant attributable to the City of Brandenburg in order to facilitate the agreement with NUCOR Steel, thereby creating substantial economic benefit for the County of Meade; and

WHEREAS, the City of Brandenburg and the County of Meade, Kentucky desire to enter into an interlocal agreement in reference thereto;

NOW THEREFORE, the City of Brandenburg and the County of Meade agree to these terms as follows:

- (1) The Meade County Judge Executive and the Mayor of the City of Brandenburg shall serve as Co-Administrators of this joint and cooperative undertaking;
-

- (2) The duration of this agreement shall be for a period of time necessary to complete the construction of the Wastewater Treatment Plant and for the financing of such plant to be paid in full, but shall not exceed twenty-one (21) years without the consent of both parties for good cause shown:
- (3) The purpose of this agreement is to share the cost of a new Wastewater Treatment Plant between the County of Meade and the City of Brandenburg in order to facilitate the agreement with NUCOR Steel to construct a new steel plant in Meade County.
- (4) The City of Brandenburg will procure financing for the construction of a new Wastewater Treatment Plant and make yearly payments against the balance:
- (5) The County of Meade will make yearly payments to the City of Brandenburg in an amount equal to fifty percent (50%) of the yearly cost incurred by the City of Brandenburg for the Wastewater Treatment Plant construction loan payment.
- (6) Before this agreement shall become operative, it shall be executed by the County Judge Executive and the Mayor of the City of Brandenburg, approved by the Department for Local Government, and shall be filed with the Meade County Clerk and with the Secretary of State as required by KRS 65.290.

Dated this 14th day of January 2020.

COUNTY OF MEADE
 BY: [Signature]
 COUNTY JUDGE EXECUTIVE

ATTEST:
[Signature]
 MEADE COUNTY CLERK

CITY OF BRANDENBURG
 BY: [Signature]
 MAYOR

ATTEST:
[Signature]
 BRANDENBURG CITY CLERK

APPROVED BY THE DEPARTMENT FOR LOCAL GOVERNMENT
this the ___ day of _____ 2020.

SANDY DUNAHOO, COMMISSIONER
DEPT. FOR LOCAL GOVERNMENT

This Instrument was prepared by:

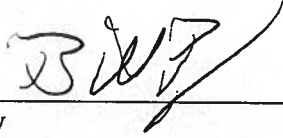
Rachel L. Brown

Rachel L. Brown
City Attorney
City of Brandenburg
737 High Street.
Brandenburg, KY 40108

INTERLOCAL COOPERATION AGREEMENT

ICA 20-⁰¹⁰~~007~~: The City of Brandenburg, Kentucky, and the County of Meade, Kentucky;
Wastewater Treatment Plan Cost Sharing

Reviewed as to compliance with KRS 65.210 to 65.300
and recommended for approval:



Bill Pauley
Staff Attorney
Department for Local Government

3/14/2020
Date

Approved:



Dennis Keene
Commissioner
Department for Local Government

3-16-20
Date

City of Brandenburg

Wastewater Treatment Plant Public-Private Partnership Request for Proposals Addendum #2

Overview

The Request for Proposals (“RFP”) issued on February 18, 2020 is clarified and modified as set forth in this addendum. The original RFP Documents remain in full force and effect, except as modified by Addendum #1 and this Addendum, which is hereby incorporated into the RFP. Respondents shall take this Addendum into consideration when preparing and submitting their Proposal.

This Addendum addresses some of the questions the City of Brandenburg (the “City”) has received in writing or during the mandatory meetings. The City anticipates answering the remaining questions it has received or will receive in future addenda.

Questions and Answers

<u>Number</u>	<u>Question</u>	<u>Response</u>
37	How has the Project schedule changed due to COVID-19?	<p>The Project timeline has been adjusted to the following:</p> <p>*Optional Site Visit: May 6, 2020 at 10:00amEST</p> <p>Final Written Questions Due: May 7, 2020</p> <p>Brandenburg’s Response to Final Set of Written Questions: May 11, 2020</p> <p>Private Partner Proposal Due: May 18, 2020 at 3:00pmEST</p> <p>Short list of Private Partner Interviews: June 1-5, 2020</p> <p>Selection of Private Partner: Week of June 8, 2020</p> <p>*Attendees must register for the site visit by emailing BrandenburgRFP@gmail.com.</p>
36	Does the City have a preferred technology it wishes to be employed?	Respondents are encouraged to propose the best technological solution to meet the City’s needs.

35	Will a sign in sheet for the second mandatory meeting be available?	Copies of the sign-in sheet may be obtained by emailing a request to BrandenburgRFP@gmail.com .
34	Does the City reserve the right to be able to use a financing option from one proposal (a losing proposal) with a Design-Build option from another proposal?	Yes. The City will evaluate proposals for the Financing Component separately from the proposals for the Design-Build Component using the criteria in RFP Section 3.5. Respondents who submit proposals addressing multiple components are welcome to articulate the benefits to the City of selecting those components from the same Private Partner team.
33	Are there any existing civil site plans available for the existing WWTP and also any gravity sewer plans available?	Respondents may request specific documents to BrandenburgRFP@gmail.com . The City reserves the right to require Respondents sign a nondisclosure agreement before sharing documents.
32	Have all environmental and archaeological investigations and regulatory permitting (i.e. Corps) been completed? Has a site and boundary survey been completed? Has a preliminary geotechnical investigation been completed? If not, is it intended that they will be a part of the Team's scope of work?	The City has ordered a geotechnical investigation, which it expects to be completed soon. The City is unaware whether an archaeological investigation has been conducted. A new site and boundary survey has not been completed. Respondents will be responsible for complying with all legally required surveys not completed by the City.
31	When would project be awarded if City provides funding?	We do not anticipate a difference in the timeline if the City uses public or private funding.

30	Will the proposals be considered public information? Can we see other proposals after everyone has turned them in?	Pursuant to KRS 61.878, no proposals will be subject to Open Records until: (1) The contract is awarded; or (2) The procurement process is cancelled without award of a contract and there is a determination that the contract will not be resolicited. Section 4.2 of the RFP addresses how Respondents should address documents containing proprietary or confidential information or trade secrets.
29	Sections 1.3.6. and 1.3.8. mention "budget". What is the budget?	The City will determine its budget upon awarding the contract. Bidders should be creative with their proposals.
28	What generator is question 17 in Addendum No.1 referring to, the one at the pump station?	Yes.
27	What is the bond percentage or amount requirements per bond?	Respondents who submit a financing proposal are encouraged to submit one that results in financing the project at the lowest net interest cost.
26	If it cannot be used as part of the new WWTP site plan, then does the existing asphalt drive need to be removed as part of the demolition?	No, the road does not need to be removed.

City of Brandenburg

Wastewater Treatment Plant Public-Private Partnership Request for Proposals Addendum #3

Overview

The Request for Proposals (“RFP”) issued on February 18, 2020 is clarified and modified as set forth in this addendum. The original RFP Documents remain in full force and effect, except as modified by prior addenda and this Addendum, which is hereby incorporated into the RFP. Respondents shall take this Addendum into consideration when preparing and submitting their Proposal.

This Addendum addresses the remaining questions the City of Brandenburg (the “City”) has received and provides other clarifications.

Questions and Answers

<u>Number</u>	<u>Question</u>	<u>Response</u>
55	What are the demolition requirements of the existing WWTP site (demolish concrete structures two feet below grade or entire structure walls/slabs, remove any existing/abandoned piping or leave in place, remove HDPE liners in lagoons or leave in place, remove sludge/solids from aeration lagoons or leave in place, remove aeration lagoon berms or leave in place, etc.)?	All liners, sludge, mechanical equipment, and safety hazards must be removed from the site of the existing WWTP. The pipes and road do not need to be removed. All pipes not connecting to the new WWTP must be capped. The site does not need to be graded or construction ready. Private Partners will remain responsible for meeting all other legal requirements.
54	Has the City conducted an archeological study of the site?	The Kentucky Heritage Council identified archeological site 15Md331 on the site of the new WWTP and has determined that site is not eligible for the National Register of Historic Places.

53	<p>Has the City confirmed that the existing Myers pumps at the pump station are capable of pumping the projected average (0.5 MGD) and peak flows through the existing force main to the new plant site?</p>	<p>The City believes the pumps need to be upgraded and prefers Myers or comparable pumps.</p> <p>Proposals for the Design-Build Component should include a separate line-item cost for replacing the pumps or explain their belief why their design would not require the pump upgrade.</p> <p>The pumps at the primary pump station include a 25 horsepower (HP) and three (3) 15HP pumps. The pump performance datasheets are posted to the project website at https://brandenburg.ky.gov/Pages/Announcements.aspx as Attachment A to Addendum 3. Additional information includes:</p> <ul style="list-style-type: none"> • Forcemain: 5247' of 10" PVC pipe • Wet well inverted elevation: 407' • Highest Force main elevation: 467' <p>Respondents should ensure their plans to address the other primary pump station requirements reflect the upgraded pumps, if necessary.</p>
52	<p>Does any work need to be conducted on the grinder pump station that is located on the site of the existing WWTP?</p>	<p>The forcemain of the grinder station on the site of the existing WWTP needs to be connected to the head of the new WWTP.</p>
51	<p>Is the existing business being serviced by Riverport B pump station being impacted by Nucor Development? If not, then will the Riverport B pump station be impacted by Nucor Development as it is adjacent to the existing WWTP lagoons? Will Riverport B pump station need to be relocated? Please provide a PDF of the Nucor site plan so the appropriate impacts may be determined.</p>	<p>No action is required from Respondents regarding the Riverport B pump station.</p> <p>The City does not plan to use this pump station in the future.</p>

50	It appears that Riverport A pump station forcemain will need to be intercepted and relocated to the new WWTP, is this the case? Please provide a PDF of the Nucor site plan so the appropriate impacts may be determined.	No action is required from Respondents regarding the Riverport A pump station. The City does not plan to use this pump station in the future.
49	Can the city provide additional wastewater strength characteristics that encompass a period of time no less than twelve months?	The Performance Characteristics for 2014-2016 from the 2017 Facilities Plan are posted to the project website as Attachment B to Addendum 3. The test results for the past twelve (12) months are also posted as Attachment C to Addendum 3.
48	What are the insurance liability limits?	The City has \$2 million of liability insurance coverage with the Kentucky League of Cities. The Private Partner must maintain at least the same amount of insurance for the duration of the construction, operational, and maintenance terms of the contract, the exact amount to be determined based on the nature of the selected proposal.
47	Does the City have a contact for Nucor?	Nucor will be not a party to this contract.
46	Is Nucor on schedule and is new WWTP completion date still going to be end of 2021?	The new WWTP completion deadline is still December 2021.

<p>45</p>	<p>Can you please provide a contract template or key terms summary covering counterparty, lease/easement, term, termination, and fees.</p>	<p>By submitting a proposal, Respondents are agreeing to the following:</p> <ol style="list-style-type: none"> 1. The terms outlined in Section 5 of the RFP. 2. If a proposal is selected which includes only the design and construction of the Project, and not financing or maintenance via the same Respondent, then the Design-Build Components will utilize either the AIA 141 document (design build, including the A201) or the ConsensusDocs 415 document. <p>This document will not be substantially altered from the standard terms, except where necessary to accommodate Kentucky law or recognize the specifics of the project. For example, the retainage amounts allowed for under KRS 371.400 et seq. will be incorporated into the document. Deviations from the standard terms, however, will include the right by the City to utilize the Instruments of Service for future improvements to the site. Respondents will not be asked to transfer all rights to the Instruments of Service, however, that will prevent them from using portions of the design product on other projects, provided indemnity to the City is provided by the Respondent. If the City terminates the project for convenience, no profit on the terminated portion of the design and construction work will be provided.</p> <ol style="list-style-type: none"> 3. The Private Partner will be subject to Liquidated Damages of \$500 per day or less for every day late on meeting the substantial completion date for the Project. It is possible that liquidated damages will not be incorporated into the parties' contract, but liquidated damages will not exceed this amount.
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		<p>4. If the Respondent submits a proposal for the design, construction, financing (and or maintenance) of the Project, whereby Respondent will recover the costs of design, construction, financing, etc over a term of years via an annual or regular payment by the City, either through a lease or similar arrangement, then the City understands and expects that the Respondence may desire some sort of a termination fee as part of any such arrangement, whereby its full unamortized capital costs can otherwise be recovered. If a Respondent submits a proposal offering such an arrangement via a lease or other whereby the City makes payments over a number of years, the Respondent should include in its proposal a proposed term, payment schedule, and proposed termination fee, including a provision for the reduction of such fee over the life of the term.</p>
44	Under financing scenario, are you envisioning the "developer" to own the asset, or are you envisioning a concessionaire agreement structure.	Respondents are encouraged to be creative with their proposals to provide the best value for the City.
43	Can you provide historical operational expenses for the existing treatment facility, including energy, labor, chemical, maintenance.	The City's expenditures related to the WWTP from 2018 to the present are posted to the project website as Attachment D to Addendum 3.
42	Does the proposal require a bond? If so, how much?	RFP Sections 2.2.2 and 2.2.3 outline the performance and payment bond and maintenance bond requirements. This project does not require a bid bond.
41	Will audited financials be made available for the City and Meade County for the past three years?	A summary of the City's financials for the past three years are posted to the project website as Attachment E to Addendum 3. The County is not a party to the contract.

40	For financing only proposal, what is total dollar amount to be financed and required term?	Respondents to the Financial Component may propose financing for a range of amounts and terms or for a maximum amount and term. If the scope of the best value P3 proposal includes Optional Components, then the City reserves the right to increase the amount financed, subject to agreement with the selected Financing Component Respondent.
39	What sort of Capital stack envisioning from respondents? Should we assume there are funds available or presenting as a total financing package?	Respondents should assume the City will provide no funds up front and the City will make payments to the Private Partner from (i) City appropriations and (ii) County cost-sharing payments.
38	What are the City's bid protest procedures?	The City follows Kentucky law regarding bid protest procedures and a formal document will be posted to the project website.

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