

**CERTIFICATION OF PUBLICATION
CITY OF BALTIMORE
OFFICE OF BOARDS AND COMMISSIONS
PUBLIC NOTICE**

**REQUEST FOR PROPOSAL - PROJECT NO. 1385R
DESIGN, BUILD, FINANCE, OPERATE AND MAINTAIN (DBFOM) SLUDGE PROCESSING
AND DISPOSAL AT THE CITY OF BALTIMORE BACK RIVER WASTEWATER
TREATMENT PLANT**

The City of Baltimore Department of Public Works has been authorized to request the Office of Boards and Commissions (OBC) to advertise Project 1385R for the design, build, finance, operate and maintain sludge processing and disposal at the Back River wastewater Treatment Plant. It is the expectation of the City's that interested firms providing these services must demonstrate and document the information asked in this RFP.

INTRODUCTION

The City of Baltimore (City) desires to enhance its investments in wastewater treatment facilities through sustainable and resilient operations including maximizing opportunities to provide high quality Class A biosolids, implementing and/or enhancing energy recovery opportunities, recovering nutrients, and addressing the management of emerging contaminants (e.g., PFAS). In January 2023, a Request for Information (RFI) was issued to gauge interest and gather industry feedback regarding resource recovery opportunities at the Back River and Patapsco Wastewater Treatment Plants (WWTPs). The response from the industry was significant, with most suggesting options to harvest and monetize renewable natural gas (RNG).

After reviewing the RFIs and conducting internal deliberations, the City has chosen a step-wise approach that will be applied separately to each facility. The purpose of this request for proposals (RFP) is to invite qualified vendors to implement and manage the conditioning, marketing, hauling, sale, and compliance monitoring for biosolids generated at the Back River WWTP.

Currently, the City outsources biosolids handling and hauling at the Back River WWTP. This The primary objectives of this solicitation are to receive and evaluate competitive proposals from qualified vendors who can provide services using a design-build-operate-finance-maintain (DBFOM) project delivery model. This model should ensure a safe, reliable, year-round, and sustainable end-use outlet for the City's biosolids.

BACKGROUND

The Back River Wastewater Treatment Plant (BRWWTP) is the largest advanced wastewater treatment plant in Maryland, with a permitted treatment capacity of 180 million gallons per day (MGD) and an average operating flow of 130 MGD. The plant processes primary sludge (PS), waste-activated sludge (WAS), and tertiary sludge through a two-stage acid-phase anaerobic digestion system, which stabilizes the sludge to Class B biosolids. Following digestion, the stabilized solids undergo two different processes and end uses (see ATTACHMENT 1). Approximately two-thirds of the digested sludge is dewatered and thermally dried by a separate

third party, resulting in a granular Class A biosolids product. The vendor owns the existing assets, such as the dewatering equipment, dryer, building, and associated appurtenances, all of which are located on property leased to them by the City. For the purposes of this proposal, these facilities will be referred to as the "drying facility." The remaining portion of the digested sludge is dewatered by the City and transported to an off-site composting facility operated by a third party to produce a Class A product. The awarded vendor will be responsible for all the sludge that is currently processed at Back River WWTP.

The City provides sludge to the drying facility, which typically contains a total solids content ranging from around 3% to 5%. The current processes handle approximately 45-65 dry tons/day of sludge. The existing composting facility processes approximately 2,200-3000 wet tons of dewatered cake monthly, with a solids content >17% in the cake. Historical quantities of sludge production and disposal can be found in ATTACHMENT 2.

PROJECT GOALS

The primary goals of the City are summarized below:

- Achieve sludge processing solution at the Back River WWTP to generate Class A biosolids.
- Engage the market and identify sustainable and revenue producing outlets for Class A biosolid product.
- Establish an alternative revenue source through profit sharing from the sale of the biosolid product.
- Maximize cost savings for the City, both present and future.
- Improve odor conditions by eliminating or mitigating odors associated with the processing of digested sludge.
- Develop a long-term (20 years) sustainable solution that minimizes or eliminates detrimental operational gaps and downtime at the Back River WWTP.
- Minimize the City's carbon footprint to the greatest extent possible in its operations.
- Establish a monitoring and reporting regime that ensures regulatory compliance.
- Provide operational and financial transparency to foster fairness and equitable risk sharing.

In addition, the City recognizes the evolving regulatory landscape and potential market disruptions that may arise from the presence of poly- and perfluoroalkyl substances (PFAS). At this moment, the City does not intend to implement PFAS destruction technology and does not require its inclusion in the proposed RFP for heat drying. However, the proposal should include a provision for incorporating PFAS destruction technology with the proposed heat drying option in the future. The goal is to understand how these technologies could be integrated with the proposed solutions at a later date and explore innovative methods for the long-term removal of PFAS and other emerging contaminants.

SCOPE OF WORK

The project entails the design, construction, financing, operation, and maintenance of a new dewatering system followed by a sludge heat drying system at the Back River WWTP to replace the current operations. Based on current operational data, the system shall have a processing

capacity starting from 45 dry tons as a guaranteed daily tonnage, with a typical processing capacity of approximately 70 dry tons per day, and up to a maximum capacity of 90 dry tons. It shall be capable of achieving a moisture content of less than 10%. The awarded service provider must process sludge regardless of its quality and other feedstock variability. Moreover, the treatment process and constructed facility shall be designed to accommodate future capacity expansion. Additionally, at the end of the contract, the transfer of equipment, maintenance records, Standard Operating Procedures (SOPs), and other relevant documentation to the City will be required.

The following tasks should be performed as part of the project:

1. Design and Construction

- Design and construction of the digested liquid sludge processing facilities capable of handling the total maximum designed volume of biosolids that can be produced at Back River WWTP, including all necessary equipment, piping, and electrical systems.
- The design and construction will ensure that the existing processes run efficiently without interference. The heat drying section will have its own dewatering facilities, which will also be included in the proposal.
- Procurement of all necessary equipment and materials.
- Design and construction of the system, including all necessary civil, structural, mechanical, and electrical works.
- Commissioning of the system, including testing and tuning of all equipment and controls.
- Provide labor for sufficient operation and maintenance of the system.
- Ensuring the centrate returns are within the operating envelope defined by the City.
- Ensuring continued compliance of the WWTP throughout construction and commissioning.
- Integration with the WWTP utility (electricity, heat) and investigation of opportunities to use combined heat and power (CHP heat) and electricity to assist the dryers.
- Obtaining all required permits to construct and start the facilities.
- Ensuring compliance with all relevant regulatory requirements.

The service provider shall ensure that the existing operations are not affected by construction or operation activities. The site layout map of the wastewater treatment plant is included in ATTACHMENT 3.

2. Operations and Maintenance

- Operate and maintain the facility in accordance with the design and regulatory requirements.
- Implement an environmental management system to ensure compliance with all relevant regulations.
- Provide routine and emergency maintenance to ensure the facility operates efficiently and effectively. Service provider shall maintain a computerized maintenance management system (CMMS) to record all completed and planned work. The City shall have access to the CMMS.
- Supply of all necessary labor, materials, and equipment.

- Conduct and provide laboratory testing to determine the efficacy of the proposed technology.
 - Ensure compliance with all regulatory requirements for sludge disposal.
 - Report on the performance (such as, run time, production quantity, sludge quality etc.) of the system to the City.
 - Prepare and maintain an asset management program consistent with the City's software and procedures.
3. Marketing, Selling, and Hauling of Biosolids Product
 - Marketing and selling the final biosolids product with the City brand.
 - Branding, packaging, and distribution/hauling of final biosolids product
 - Identification of prospective customer(s) and anticipated revenue to be generated
 - Monitoring of the ongoing compliant usage and storage of the biosolids.
 4. City Fees
 - The service provider will be charged a monthly property lease fee for the duration of the contract. The City reserves the right to re-assess the fee each year.
 - The service provider is responsible for payment of all utility fees, including any water/wastewater utility fee.

SERVICE PROVIDER CAPABILITIES

1. The service provider shall have a proven track record in the DBFOM project delivery model, design, construction, and operation of sludge drying systems, and operations of wastewater treatment plants and biosolids conditioning systems, marketing of biosolids for beneficial reuse, and regulatory compliance.
2. The service provider shall have a proven track record for the production, marketing, and sale of Class A biosolids from Class B digestate, using thermal drying.
3. The service provider shall demonstrate that the proposed process is safe, environmentally sound, sustainable, and cost-effective.
4. The service provider shall comply with all federal, state, and local regulations governing sludge disposal.

PROPOSAL REQUIREMENTS

Interested service providers are invited to submit a proposal that includes the following information:

1. Service Provider Profile and Experience: Provide details about the service provider's background and experience in the field of sludge heat drying, Class A biosolids production, marketing, sale, and compliance monitoring. Information shall show background and experience over the past 20 years.
2. Proposed Solution: Present a comprehensive description of the proposed treatment technology and processes, including:

- Space and size requirements for the facility dedicated to dewatering followed by drying.
 - Proposed location of the facilities within the Back River WWTP
 - Processing capacity for sludge in the drying facilities.
 - Equipment specifications
 - Market plan and the marketability of the intended products
3. Implementation Plan: Outline a detailed implementation plan, including:
 - Proposed schedule for facility development
 - Permitting design and construction timeline
 - Commissioning schedule
 - Operations plan with start and end dates for each phase of work
 - Overall Gantt chart for the project
 4. Integration with Existing Facilities: Specify whether the proposal intends to use any existing facilities or equipment and provide a site drawing illustrating how the new facilities will integrate with the existing ones.
 5. Financial Plan: See the “**FINANCIAL CAPACITY AND QUALIFICATIONS**” section in detail in this document.
 6. Construction Plan: Detail construction plan that ensures ongoing compliance and minimizes downtime and disruption of existing sludge heat drying facilities during the construction of the new facilities. Plan shall include proposed lead engineering consultant and general contractor.
 7. Asset Availability and Maintenance Approach: Provide information on asset availability, how predictive, preventative maintenance will be used to avert unplanned outages, skills and number of maintenance engineers based on-site and whether the staff will be dedicated to this facility or if any be covering other DBFOM facilities for other clients, planning and scheduling approach.
 8. Regulatory, Environmental, and Health & Safety Compliance Plan: Outline a plan to address regulatory, environmental, and health and safety compliance aspects of the project.
 9. References from Previous Projects: Provide references from a minimum of 7 previous/current projects. All references shall be for work completed within the last 5 years. Each reference shall include the following information:
 - Facility location.
 - Facility size (Dry Tons/day).
 - Construction and operations start and end dates.
 - Permit issuance date for project from state regulatory authority
 - Audited annual revenue/costs.

- Annual processed dry tonnage and average monthly processed dry tonnage for each month in operation (include month and year).
 - Vendor’s operational organization chart, including name and number of years working on the project for each person identified in the chart.
 - Client/owner name, title and contact information.
10. References for Class A Drying, and DBFOM Approach: Include at least two case studies demonstrating the service provider's experience in providing drying, marketing, sale, and monitoring of Class A biosolids. Additionally, include at least one case study involving the DBFOM (Design-Build-Finance-Operate-Maintain) approach. Case studies shall be from active projects/facilities.
11. Prior Experience (if any) in PFAS and Emerging Contaminants Removal: Provide additional references demonstrating prior experience in removing PFAS and emerging contaminants from biosolids, including technical specifications of the technologies used.

FINANCIAL CAPACITY AND QUALIFICATIONS

Present a comprehensive financial plan narrative that should describe the following and respond directly to the financial requirements described:

- Approach to financing the Project and summary of the sources of funding, including short- and long-term debt, equity, and soft funds.
- A description of the service provider’s financial capacity and backing, including general financial capabilities, partnerships, access to equity capital, and financing resources. Additionally, detail any prior experience in privately financing comparable projects.
- Narrative describing rationale for cost, revenue, cost recovery, and financing assumptions.
- Infrastructure funding/financing plan, including a demonstrated ability to fund most or all infrastructure required for the site upfront and/or a strategy to delegate infrastructure development to a 3rd party developer (if applicable).
- Payments offered to the City (form and estimated amount) for ground lease, revenue sharing, rental fees, and any other payments and escalation or step regimes.
- A statement explaining any mechanisms that the service provider offers to the City as additional revenue-generating opportunities.
- A statement disclosing whether the service provider intends to utilize any public finance programs.
- Strategy for reserves to maintain a high-quality asset.
- Any other information on the company's basic financial state, including credit rating and financial health.
- A plan for transitioning or concluding the contract and handling assets at the end of the proposed agreement.
- If the company is publicly owned, a copy of the company’s audited annual financial report for the past 7 years.

Proposals should include a comprehensive financial plan and a pro forma in an Excel model outlining the Project economics and financing that should include:

- Detailed development budget showing hard and soft costs, financing costs, and other payments and expenses including, but not limited to construction, design, procurement, installation, and commissioning.
- Sources (outside lender, the parent company, etc.) and uses that shows ratios of various sources of capital, including assumed debt terms.
- Phasing schedules for the Project (if applicable).
- Annual operations and maintenance costs.
- Payments offered to the City (form and estimated amount) for monthly property lease fee, revenue sharing between the service provider and the City for the marketed biosolids end-products, host fees, surcharges, and any other payments.
- A 10-year operating cash flow showing at least anticipated revenue, expense line items, NOI (Net Operating Income), reserves, and debt service (including all assumptions).

Provide a statement if any of the following situations are applicable to the service provider, key personnel, or relevant and associated entities:

- Declared bankruptcy during the past five (5) years
- In default on any loan agreement or financing agreement with a bank, financial institution, or other entity.
- Adverse actions taken by any funding sources or financial institutions against the service provider or joint venture partner, such as terminating or restricting the use of funds anytime during the past five years, if any.
- Involved in any business-related litigation, liens, court sanctioned financial judgments, or legal claims in the past five (5) years.
- Litigation in which developer (and any related affiliated entities) is involved or settled litigation over the last five years, if any.

To the extent allowed by law, the City and will maintain the confidentiality of certain financial information provided by respondents as a part of this process. Proposals should provide confidential financial information, with each page clearly marked confidential.

THE CITY RIGHTS

In relation to this RFP, the City has the sole exclusive rights and conditions which it can choose to reserve, retain, and utilize at its discretion. By submitting a proposal, the proposers recognize and agree to the following conditions.

1. The City has the right to modify the schedule of events associated with this procurement by providing notice to the proposers, and proposers must agree to any changes made by the City.
2. The issuance of this RFP does not impose any obligation on the City to procure or contract for any services.
3. The City reserves the right to accept or reject any or all proposals and components thereof for any reason, and to disqualify any proposer who submits incomplete or inadequate responses or is not responsive to the requirements of this RFP.

4. The City may request additional data, information, or clarifications pertinent to this solicitation after the submittal date, provided that such information is germane to the evaluation of the Proposer's qualifications.
5. The proposer will bear all costs incurred in connection with responding to this RFP, the evaluation and selection process, and any negotiations related to contract development.
6. The City may supplement, amend or modify this RFP or request additional information without prior notice.
7. All submitted proposals will become the property of the City and will not be returned.
8. The City may determine at any time that one or all proposers will not be selected for further consideration and inform them of its decision.
9. The City may terminate negotiations with any proposer and negotiate with one or more proposers concurrently or sequentially.
10. The City reserves the right to hold discussions for clarification with one or more proposers at any point following the submission of proposals.
11. The City may request proposers to attend interviews and presentations either in person or virtually.
12. The City, its staff, representatives, consultants, or agents will not be liable for the completeness or accuracy of any data or information presented in connection with this RFP. The proposer is responsible for conducting necessary studies and investigations to prepare its proposal.
13. The City, its staff, representatives, consultants, or agents will not be liable for any claims or damages arising from the solicitation, collection, review, or evaluation of responses to this RFP.
14. The City reserves the right to contact references and parties knowledgeable of the proposer and its performance.
15. The City reserves the right to visit and examine facilities referred to in the proposal and investigate their operations.
16. The City reserves the right to investigate the proposers and their responses to this RFP and request additional evidence to support the information provided.
17. The City retains all rights with respect to the evaluation, clarification, selection, and negotiation process set forth in this RFP.
18. Submitting a proposal waives any rights of the proposer to take legal action against the City if the proposer is not selected.
19. All material offered in response to this RFP will become public record and will be subject to inspection after a contract is awarded. Any material requested to be treated as confidential, proprietary information or trade secrets must be clearly identified and readily separable from the balance of the proposal. Such designations will not necessarily be conclusive, and additional information may be required to justify why such material should not, upon written request, be disclosed by the City under the Maryland Public Information Act.

EVALUATION CRITERIA

Proposals will be evaluated based on the following criteria:

Criteria	Score
Technical approach	25

<ul style="list-style-type: none"> Proposed solution Incorporation of innovative technologies Regulatory, environmental and safety compliance 	
Experience and Qualifications	25
<ul style="list-style-type: none"> Company profile and experience Company financials Company track record References and past performance 	
Project Management and Implementation Plan	10
<ul style="list-style-type: none"> Project timeline Implementation plan Integration with existing facilities Construction plan Asset availability and maintenance approach Transitioning plan 	
Performance Guarantees	10
Financial Viability	30
<ul style="list-style-type: none"> Comprehensive financial plan Detailed cost breakdown for design, construction, and operations Pricing structure and payment terms Expected capital and operational cost Revenue sharing model 	
Total	100

COSTS OF RFP RESPONSE

There will be no payment or compensation provided to individuals who participate in any part of the submission or selection process. All expenses related to the preparation of a response, including additional requested information, interviews, and any other necessary information, will be the sole responsibility of the prospective responder. The City, its staff, or its consultants will not be responsible for reimbursing any costs or expenses incurred as a result of submitting a response to this RFP.

TIMELINE

The following timeline shall apply to this RFP:

RFP issued: Friday, November 22, 2024

Deadline for questions: Friday December 6, 2024

Proposal submission deadline: On or before Friday, February 7, 2025 (NOON)

PRE-PROPOSAL CONFERENCE/SITE VISIT

A non-mandatory pre-proposal conference (either in-person at BRWWTP or virtual) will be conducted on October 22, 2024 at 10 AM ET. If held in-person, a site visit will immediately follow the pre-proposal conference.

DPW encourages all contracting firms that have the experience and capacity to work on this scope to submit their proposals. All firms must demonstrate and document their capacity and resources to deliver the required services on time. Projects must comply with the 2006 edition of “The Specifications for Materials, Highways, Bridges, Utilities and Incidental Structures”. City personnel will utilize the City of Baltimore Guidelines for the Performance Evaluation of Design Consultants and Construction Contractors for this contract/project. Should you have any questions regarding the scope of the project, **please contact Mr. Mahmudul Hasan, Ph.D. (email Mahmudul.Hasan@baltimorecity.gov)**. The subject line for the email must be “**Questions for Project 1385R**”. A shorter version of this RFP is available for a quick review but cannot be included in this document. Please email your request to the same contact person, and the subject line must be “**Request for Attachment for Project 1385R**”.

Prequalification Requirement

All firms listed in this specific proposal (SF255) / (330) for this Project **must** be prequalified by the Office of Boards and Commissions for **each** applicable discipline included in the proposal, *at time of submittal* for this Project. *A copy of the consultants current Prequalification Certificate should be included in the bid submittal package.* Information regarding the prequalification process can be obtained by calling the Office of Boards and Commissions on 410.396.6883.

Submittal Process

Each Firm responding to this Request for Proposal (RFP) Project #1385R is required to complete and submit an *original* Standard Federal Form (SF) 255 / 330 unless otherwise specified in this RFP. Provide one (1) **original** submittal, along with **five (5)** copies to the Office of Boards and Commissions on or prior to the due date of February 7, 2025, **NOON**, Submittals *will not* be accepted after this deadline.

The Federal Standard Form (SF) 255 **cannot** be supplemented with additional pages, or additional information such as graphs, photographs, organization chart, etc. All such information should be incorporated into the appropriate pages. Applications should not be bound; simply stapled in the upper left-hand corner. Cover sheets should not be included. Inclusion and/or submittal of additional material may result in the applicant being disqualified from consideration for this project.

Firms interested in submitting a proposal for this Project, shall address a “Letter of Interest” to the Office of Boards and Commissions, 4 South Frederick Street, 4th Floor, Baltimore, Maryland, 21202 or you may email: OBC.consultants@baltimorecity.gov. Letters of Interest will be utilized to assist small minority and women business enterprises in identifying potential teaming partners and should be submitted within five (5) days of the date of the project’s advertisement. The Letter of Interest must provide the name and number of your firms contact person. Failure to submit a “Letter of Interest” will not disqualify a firm submitting a proposal for the project.

Only individual firms (including, for example, individuals, sole proprietorships, corporations, limited liability companies, limited liability partnerships, and general partnerships) or formal Joint Venture (**JV**) may apply. Two firms may not apply jointly unless they have formed a joint venture.

MBE/WBE Requirements – Mayor’s Office (SMBA&D)

It is the policy of the City of Baltimore Mayor's Office of Small and Minority Business Advocacy & Development (SMBA&D) to promote equal business opportunity in the City's contracting process. Pursuant to Article 5, Subtitle 28 of Baltimore City Code (2000 Edition) – Minority and Women's Business Program, Minority Business Enterprise (MBE) and Women's Business Enterprise (WBE) participation goals apply to this contract. Minority- and women-owned business participation goals will be determined after contractor selection.

Verifying Certification

Each firm submitting a SF 255 for consideration for a project is responsible for verifying that all MBEs and WBEs to be utilized on the project are certified by the SMBA&D prior to submitting the proposal. A directory of certified MBEs and WBEs is available from SMBA&D. Since changes to the directory occur daily, firms submitting SF 255s should call SMBA&D at (410) 396-3818 to verify certification, expiration dates and services that the MBE or WBE is certified to provide.

Non-Affiliation

A firm submitting a proposal may not use an MBE or WBE to meet a contract goal if:

1. The firm has a financial interest in the MBE or WBE
2. The firm has an interest in the ownership or control of the MBE or WBE
3. The firm is significantly involved in the operation of the MBE or WBE

(Article 5, Subtitle 28-41).

Insurance Requirements

The consultant selected for the award of this project shall provide professional liability, auto liability, and general liability and workers' compensation insurances as required by the City of Baltimore.

Local Law Hiring

Article 5, Subtitle 27 of the Baltimore City Code, as amended (the "Local Hiring Law") and its rules and regulations apply to contracts and agreements executed by the City on or after the Local Hiring Law's effective date of December 23, 2013, which is applicable to all vendors. The Local Hiring Law applies to every contract for more than \$300,000 made by the City, or on its behalf, with any person. It also applies to every agreement authorizing assistance valued at more than \$5,000,000 to a City-subsidized project. Please visit www.oedworks.com for details on the requirements of the law.

Additional Information

Any firm submitting a (SF255) in response to the RFP that fails to comply with the requirements of Article 5, Subtitle 28 of Baltimore City Code when executing a contract is subject to the following penalties: suspension of a contract; withholding of funds; rescission of contract based on material breach; disqualification as a consultant from eligibility to provide services to the City for a period not to exceed 2 years; and payment for damages incurred by the City.

A resume for each person listed as key personnel and/or specialist, including those from MBE and WBE firms, must be shown on the page provided within the application.

Please be advised that for the purpose of reviewing price proposals and invoices, the City of Baltimore defines a principal of a firm as follows:

A principal is any individual owning 5% or more of the outstanding stock of an entity, a partner of a partnership, a 5% or more shareholder of a sub-chapter 'S' Corporation, or an individual owner.

Out-of-State Corporations must identify their corporate resident agent within the application.

Firms will not be considered for a specific project if they apply as both a sub-consultant and prime consultant.

Failure to follow directions of this advertisement, submittal due date or the application may cause disqualification of the submittal.

Deena Joyce, AEAC Executive Secretary
Chief, Office of Boards and Commissions

Issue of: November 22, 2024

The Afro-American

The Baltimore Sun

The Baltimore Times

The Daily Record

eMaryland Marketplace

ATTACHMENT 1

BRWWTP Solids Treatment Process Flow Diagram

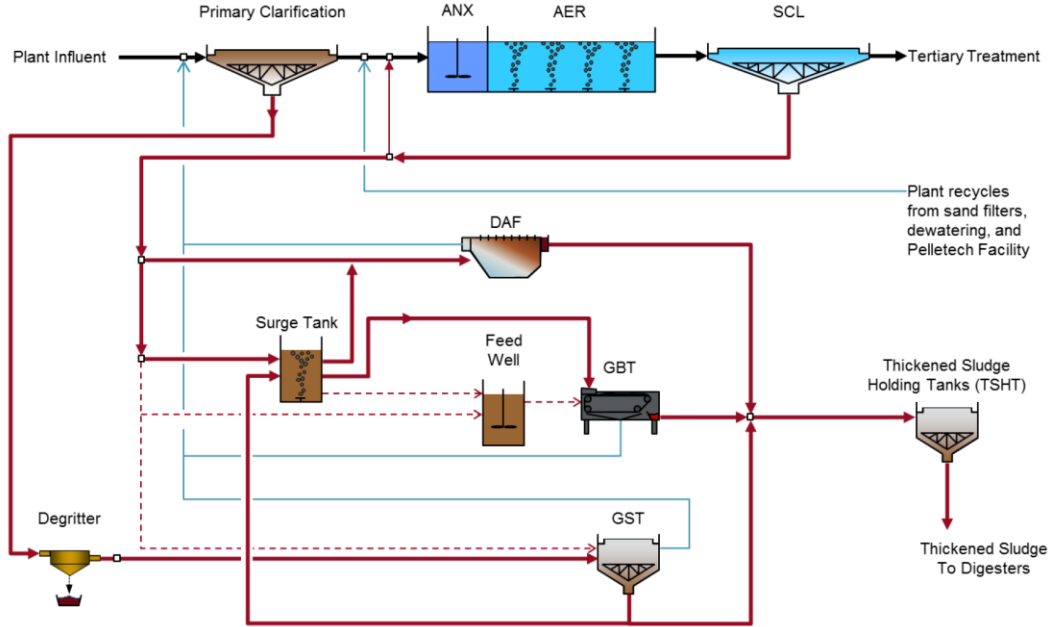


Figure 1 BRWWTP Solids Treatment Processes (Part 1 of 2)

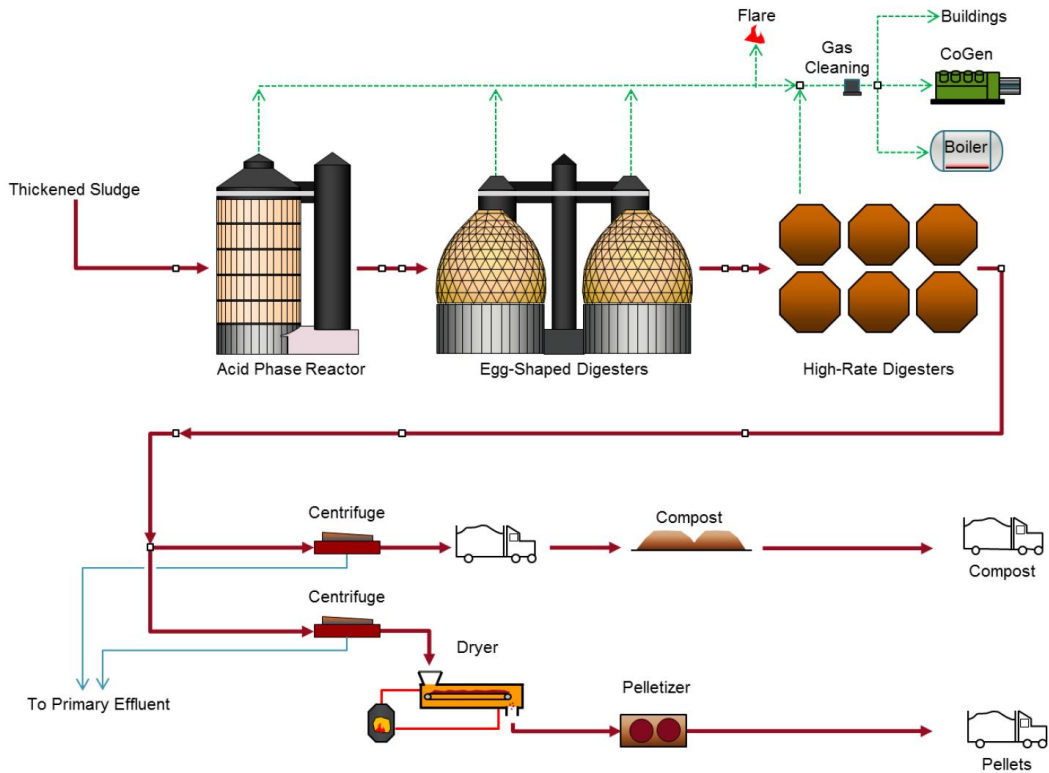


Figure 2 BRWWTP Solids Treatment Processes (Part 2 of 2)

ATTACHMENT 2

Sludge Production and Disposal at BRWWTP

		Total Sludge		From City Centrifuge			From Heat Drying			Total Sludge	
		Production		to Compost			for Disposal			Disposal	
		Wet	Dry	Wet	Dry	TS	Wet	Dry	TS	Wet	Dry
		(tons/day)	(tons/day)	(tons/day)	(tons/day)	%	(tons/day)	(tons/day)	%	(tons/day)	(tons/day)
2023	Avg. (monthly)	203.4	53.6	129.7	26.8	20.7	41.0	35.0	82.1	134.7	38.5
	Max. (monthly)	500.2	203.3	203.3	43.3	37.2	118.8	105.4	96.4	274.7	129.2
2022	Avg. (monthly)	225.1	49.4	127.6	27.8	21.8	63.3	56.4	88.9	150.8	59.0
	Max. (monthly)	365.9	83.7	151.4	31.8	22.9	74.3	64.9	92.9	190.0	89.2
2021	Avg. (monthly)	183.3	37.8	144.3	30.5	21.2	39.4	36.4	92.0	141.7	46.2
	Max. (monthly)	234.9	50.2	173.4	36.2	22.3	54.5	50.6	94.2	192.1	62.1
2020	Avg. (monthly)	227.1	48.2	153.6	33.7	21.4	51.8	47.3	91.4	164.5	64.0
	Max. (monthly)	263.2	56.6	194.5	41.5	23.2	59.2	54.5	93.4	231.0	80.3
2019	Avg. (monthly)	290.9	60.4	152.7	31.8	20.8	61.3	48.6	87.4	194.7	75.9
	Max. (monthly)	346.7	69.8	182.9	39.5	21.4	69.5	62.5	90.0	220.5	88.8
2018	Avg. (monthly)	283.7	62.2	133.0	30.0	22.0	65.5	56.4	86.4	187.9	77.3
	Max. (monthly)	336.4	72.6	164.1	38.6	23.8	87.7	74.3	89.9	238.6	105.0

ATTACHMENT 3 BRWWTP Site Map with Existing Operations

