



Pike Island Locks and Dam Hydroelectric Project

Application for Preliminary Permit
Before the Federal Energy Regulatory Commission

Submitted to: Federal Energy Regulatory Commission
888 First Street, NE
Washington, D.C. 20426

Applicant: Pike Island Hydropower Corporation
Post Office Box 224
Rhinebeck NY, 12572

Prepared by: Current Hydro LLC
August 1, 2021



SECTION 4.81 (A) INITIAL STATEMENT

(1) Statement of Application

Pike Island Hydropower Corporation (applicant) applies to the Federal Energy Regulatory Commission for a preliminary permit for the proposed Pike Island Locks and Dam Hydroelectric Project ("Pike Island Project", or Project), as described in the attached exhibits. This application is made to secure and maintain the applicant's priority of licensing for the project under Part 1 of the Federal Power Act while obtaining the data and performing the acts required to determine the feasibility of the project and support an application for the license.

Pike Island Hydropower Corporation is an entity fully owned by Current Hydro, LLC (Current Hydro). Current Hydro is acting agent for Pike Island Hydropower Corporation.

Current Hydro further is the acting agent for Current Hydro Project 19, LLC, the entity holding the preliminary permit for the New Cumberland Locks and Dam Hydroelectric Project No. 15045 (New Cumberland Locks and Dam Hydroelectric Project), to be located at the U.S. Army Corps of Engineers' New Cumberland Locks and Dam, upstream from the Pike Island Locks and Dam. Current Hydro Project 19, LLC is also fully owned by Current Hydro, LLC.

Current Hydro, as agent for both projects, intends to develop the Pike Island Project concurrent with the proposed New Cumberland Locks and Dam Hydroelectric Project (P-15045, New Cumberland Locks and Dam Hydroelectric Project). The New Cumberland Locks and Dam Hydroelectric Project is located 30 miles upstream of the Pike Island Project on the Ohio River at the U.S. Army Corps of Engineers' New Cumberland Locks and Dam. Developing the two projects together will create many synergies for all stakeholders, the Commission, resource agencies, as well as the developer and eventual operator.

To underline the applicant's determination to move forward with the development of the Pike Island Project, the applicant is submitting a Notice of Intent and the Pre-Application Document for the project in conjunction with this preliminary permit application.

(2) The location of the proposed project is:

Dam: USACE Pike Island Locks & Dam

States involved Ohio
West Virginia

Counties Belmont County, Ohio
Jefferson County, Ohio
Ohio County, West Virginia

Nearby Towns Village of Yorkville, Ohio
Village of Tiltonsville, Ohio
City of Wheeling, West Virginia

Body of Water Ohio River
Latitude 40° 9' 3.59" N
Longitude 80° 42' 20.5" W

(3) The exact name, business address, and telephone number of the Applicant

Pike Island Hydropower Corporation
PO Box 224
Rhinebeck, NY 12572-0224
Phone: 917-244-3607

The exact name, address, and telephone number of persons authorized to act as agents for the Applicant in this application are:

Joel Herm Joel@currenthydro.com
Jan Borchert Jan@currenthydro.com

Current Hydro, LLC
Post Office Box 224
Rhinebeck NY, 12572

Phone: 917-244-3607

(4) Preference under Section 7(a) of the Federal Power Act

Pike Island Hydropower Corporation is a domestic corporation registered in the State of Delaware. It is not claiming preference under Section 7(a) of the Federal Power Act.

(5) Term of Permit

The proposed term of the requested permit is 48 months.

(6) Existing Dams or Other Project Facilities

The proposed Project is located at the U.S. Army Corps of Engineers (USACE) Pike Island Locks and Dam facility on the Ohio River along West Virginia Route 2, just north of the Warwood district of the city of Wheeling. The villages of Yorkville, OH and Tiltonsville, OH are on the western shore of the Ohio River. The USACE Pittsburgh District owns and operates the Pike Island Locks and Dam. The address for both the district and local offices are:

U.S. Army Corps of Engineers
Pittsburgh District
2200 William S. Moorhead Federal Building
1000 Liberty Avenue
Pittsburgh, PA 15222-4186

Corps of Engineers, Pike Island Locks and Dam
RR #1, Box 33
Wheeling, WV 26003-9701

SECTION 4.32 (A) INFORMATION

(1) Identify every person, citizen, association of citizens, domestic corporation, municipality, or state that has or intends to obtain and will maintain any proprietary right necessary to construct, operate, or maintain the project:

Pike Island Hydropower Corporation is the only entity that has or intends to obtain and will maintain any proprietary right necessary to construct, operate, or maintain the project.

(2) (i) Identify: Every county in which any part of the project, and any Federal facilities that would be used by the project, would be located:

Belmont County, Ohio
101 West Main Street
St. Clairsville, OH 43950

Jefferson County, Ohio
Jefferson County
Commissioners' Office
301 Market Street
Steubenville, OH 43952-
2133

Ohio County, West Virginia
City County Building
Suite 215
1500 Chapline Street
Wheeling, WV 26003

(2) (ii) (A) Identify: Every city, town, or similar local political subdivision: In which any part of the project, and any Federal facilities that would be used by the project, would be located:

Village of Yorkville, Ohio
139 Market Street
Yorkville, OH 43971-1217

City of Wheeling, West Virginia
1500 Chapline Street
Wheeling, WV 26003

Village of Tiltonsville, Ohio
222 Grandview Avenue
Tiltonsville, OH 43963-1057
(740) 859-2730

(2) (ii) (B) Identify: Every city, town, or similar local political subdivision: That has a population of 5,000 or more people and is located within 15 miles of the project dam:

City of Martins Ferry, Ohio
Mayor
35 South 5th Street
Martins Ferry, OH 43935

City of Wheeling, West Virginia
1500 Chapline Street
Wheeling, WV 26003

City of St. Clairsville, Ohio
PO Box 537
100 North Market Street
St. Clairsville, Ohio 43950

City of Moundsville, West Virginia
800 6th St,
Moundsville, WV 26041

City of Steubenville, Ohio
Municipal Building
115 South Third Street
Steubenville, Ohio 43952

City of Weirton, West Virginia
200 Municipal Plaza
Weirton, WV 26062

Mead Township, Ohio

51554 Wegee Rd
Bellaire, OH 43906

Pease Township, Ohio

58580 Joseph Street
Rayland, OH 43943

Pultney Township, Ohio

56420 High Ridge Road
Bellaire, OH 43906

Richland Township, Ohio

66565 Warnock Saint Clairsville Road
St. Clairsville, OH 43950

Warren Township, Ohio

302 Walden Avenue
Tiltonville, OH 43963

(2) (iii) Identify: Every irrigation district, drainage district, or similar special purpose political subdivision:

There is no irrigation district, drainage district, or similar special purpose political subdivision, (A) In which any part of the project, and any Federal facilities that would be used by the project, would be located; or (B) That owns, operates, maintains, or uses any project facilities or any Federal facilities that would be used by the project; associated with this project.

(2) (iv) Identify: Every other political subdivision in the general area of the project that there is a reason to believe would likely be interested in, or affected by, the application:

Ohio Senators:

Senator Robert Portman
338 Russell Senate Office Building
Washington, DC 20510

Senator Sherrod Brown
713 Hart Senate Office Building
Washington, DC 20510

West Virginia Senators:

Senator Shelley Wellons Moore Capito
172 Russell Senate Office Building
Washington, DC 20510

Senator Joe Manchin III
303 Hart Senate Office Building
Washington, DC 20510

(2) (v) Identify: All Indian Tribes that may be affected by the project:

The applicant has identified the following Indian Tribes that may potentially have an interest or be affected by the project using publicly available information and data contained in the FERC eLibrary:

Absentee-Shawnee Tribe of Indians of Oklahoma
Devon Frazier
Tribal Historic Preservation Officer
2025 S. Gordon Cooper Drive
Shawnee OK 74801

Delaware Nation
Erin Paden
Historical Preservation Officer
P.O. Box 825
Anadarko, OK 73005

Delaware Tribe of Indians
Dr. Brice Obermeyer, THPO
170 North East Barbara
Bartlesville, OK 74006

Eastern Shawnee Tribe of Oklahoma
Paul Barton
Tribal Historic Preservation Officer
P.O. Box 350
Seneca, MO 64865

Seneca-Cayuga Tribe of Oklahoma
William Tarrant
Tribal Historic Preservation Officer
23701 S 655 Road
Grove, OK 74344

Shawnee Tribe
Tonya Tipton
Tribal Historic Preservation Officer
29 South Highway 69 A
Miami, OK 74354

Osage Nation Historic Preservation Office
James Munkres, Archaeologist
627 Grandview Avenue
Pawhuska, OK 74056

Miami Tribe of Oklahoma
Diane Hunter
Tribal Historic Preservation Officer
P.O. Box 1326
Miami, OK 74355

Seneca Nation of Indians
Joe Stahlman
Tribal Historic Preservation Officer
P.O. Box 231
Salamanca, NY 14779

Tonawanda Band of Seneca
Roger Hill, Chief
7027 Meadville Road
Basom, NY 14013

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SECTION 4.32 (a)(4) VERIFICATION STATEMENT

This Application for Preliminary Permit is executed in the State of New York, County of Dutchess, by:

Joel Herm, CEO
Pike Island Hydropower Corporation
Post Office Box 224
Rhinebeck NY, 12572

Being duly sworn, deposes and says that the contents of this application are true to the best of his knowledge or belief. The undersigned applicant has signed the application this

29th day of July, 2021.



Joel Herm, CEO
Pike Island Hydropower Corporation

On this 29th day of July, 2021, I certify that Joel Herm before me, the undersigned Notary Public, personally appeared, proved to me through satisfactory evidence of identification, which was a New York Driver's License, to be the person whose name is signed on the attached document in my presence.



BRANDON A. DRESCHER
Notary Public, State of New York
Reg. #01DR6218067
Qualified in Ulster County
Commission Expires 2/22/22

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SECTION 4.81 (B) EXHIBIT 1 – GENERAL DESCRIPTION

(1) General Configuration and Information

The proposed project will be located at the existing United States Army Corps of Engineers (USACE) Pike Island Locks and Dam (the dam) on the Ohio River at river mile 84.2. The counties of Belmont County, Ohio, and Ohio County, West Virginia, border the dam. The dam was placed into service in 1965.

The gated dam contains two navigational locks and is of reinforced concrete construction. Gated dams are constructed to permit increased control over the water level in the navigation pool upriver of the dam.

The dam's primary physical elements are further described in the following table:

Pike Island Locks and Dam	
Year Placed Into Operation	1965 (56 years old)
Location	Wheeling, WV
Water Body	Ohio River
Latitude	40° 9' 3.59" N
Longitude	80° 42' 20.5" W
Structural Height	64 ft.
Gates	9
Gate Dimensions	110 ft. by 29 ft.
Main Lock Dimensions	110 ft. by 1,200 ft.
Auxiliary Lock Dimensions	110 ft. by 600 ft.
Overall Length	1,306 ft.
Storage Capacity	89,300 acre-ft.

There are no existing hydroelectric facilities at the proposed project site.

The proposed development of the site involves the construction of a 20 megawatt (MW) hydropower facility at the western end of the dam. To a large degree, the project boundary will be within the state of Ohio. As the Pike Island Locks and Dam facility is owned and operated by the USACE, Pittsburgh District, it is therefore not proposed to be a formal project facility:

USACE Dam The dam, as described above, consists of two operational locks and a reinforced concrete dam with nine (9) gates. This type of spillway permits increased control over the water level in the navigation pool upriver of the dam. As the gates are raised or lowered to control the amount of water flowing under them, the upstream impoundment is maintained at a relatively constant level for an authorized depth of at least 9 ft. throughout its length. However, the dam cannot be operated to control the flood

flows. An incidental benefit derived from the pool formed by the dam is the availability of a source of municipal and industrial water.¹

USACE Locks

The site has two operational locks. The primary lock is 1,200 ft. long and 110 ft. wide, and the auxiliary lock is 600 ft. long and 110 ft. wide. The walls and floors of the locks are of reinforced concrete construction. Located at each end of the lock chambers are two miter gates. The primary lock is accompanied by a central control building that contains office space, electrical controls, and other equipment related to the operation of the locks and dam.

The Project will consist of the following major elements:

Powerhouse

The proposed powerhouse will be reinforced concrete, approximately 160 ft. by 160 ft. in plan, and will be constructed on the Ohio side, slightly downstream from the dam, on the right bank facing downstream. The powerhouse will contain two, three, or four identical Kaplan pit turbine-generators with a combined hydraulic capacity of 14,200 cfs and a combined net power capacity of 20,000 kW. The powerhouse will contain controls and ancillary electrical and mechanical systems, and erection space. The powerhouse will be connected to a powerhouse-substation (see below) via an underground utilidor under Ohio River Road.

Intake

The proposed intake channel will be located upstream of the powerhouse and will convey flow from the upper pool to the powerhouse. The new intake will measure approximately 160 ft. in width and 100 to 200 ft. in length and consist of an armored channel. Powerhouse trash racks will prevent large debris from entering the turbine system.

Tailrace Channel

The proposed tailrace will convey water exiting the powerhouse back into the river channel downstream of the dam. The approx. 160-ft. wide by approximately 300-ft. long tailrace will consist of an armored channel. Stone riprap will be placed along the banks and in areas of higher velocity to prevent scouring and erosion.

Turbine-Generators

The proposed hydroelectric turbine-generator configuration will have a hydraulic capacity of about 14,200 cfs and a net proposed power capacity of 20 MW. To optimize the use of the available space between the dam and Ohio River Road (Old State Highway 7) while minimizing excavation depth, the project developer is currently evaluating a two-, three-, or four-unit powerhouse installation, utilizing two, three, or four identical pit turbine-generators. The number of units is not expected to change the powerhouse's overall hydraulic capacity or capacity factor, but the minimum operating flow will vary with this design decision: The hydraulic minimum flow of the powerhouse will be 2,000 cfs for the 2-unit arrangement, 1,400 cfs for the 3-unit arrangement, and 1,000 cfs for the 4-unit arrangement. The four-unit design would include four (4) identical

¹ US Army Corps of Engineers Pittsburgh District Website, accessed 07/15/2021:
<https://www.lrp.usace.army.mil/Missions/Navigation/Locks-and-Dams/Pike-Island-Locks-Dam/>

pit turbine-generators, each rated at 5.275 MW, to be installed in the new powerhouse for a total project gross capacity of 21.1 MW.

Substation

A proposed three-phase step-up transformer (13.8 kV to 69 kV) will be located in a new powerhouse-substation on the west-side of Ohio River Road (Old State Highway 7). The powerhouse-substation will be approximately 200 ft. wide by 200 ft. long. The powerhouse-substation will be located within a separate approximately 300 ft. by 400 ft. lot. The 300 ft. by 400 ft. lot will be developed from the powerhouse excavation spoil material. The lot will also house a warehouse (60 ft. x 40 ft.), a control building (60 ft. x 40 ft.), and a yet-to-be-defined parking area.

Access Roads

The applicant proposes access to the powerhouse and powerhouse-substation will be provided directly from the Ohio River Road (Old State Highway 7).

Transmission Line See (3) for a description of the proposed transmission line.

(2) Reservoirs

The Pike Island Locks and Dam form one impoundment pool that spans river miles 84.2 through 54.4 on the Ohio River for an approximate total of 29.9 miles. This pool extends from the Pike Island Locks and Dam in Wheeling, WV upstream to the New Cumberland Locks and Dam in Stratton, Ohio. The normal pool elevation of the impoundment created by the dam is 644 ft. MSL. The normal elevation of the lower pool, downstream of the dam, is 623 MSL. The surface area of the upper pool at normal pool elevation is believed to be 5,140 acres².

The reservoir is normally referred to as a navigational pool. The dam and its associated pool are controlled and operated by the USACE, Pittsburg District. The Project will be operated in a run-of river mode that maintains the navigation channel at all times. There is no available storage capacity to be used for hydro generation purposes with this operational regime. The reservoir's storage capacity is believed to be 89,300 acre-ft.²

The creation of additional new reservoirs is not proposed.

(3) Transmission Lines

The applicant has identified existing transmission infrastructure in the vicinity of the proposed project area, specifically an existing substation in Tiltonsville, OH. A new approximately 1.4 miles long 69 kW transmission line is proposed to run from the powerhouse-substation on the west side and adjacent to Ohio River Road (Main Street, 1 miles), and adjacent to Medilla Avenue to Maiden Lane towards the substation at the corner of Walter Street and Maiden Lane (0.4 miles).

² This information is based on Bedford Energy Associates LLC's submission for a Preliminary Permit for the Pike Island Hydroelectric Project under P-14611, filed on 03/26/2014, accession number: 20140327-0001. The applicant was not able to otherwise verify the stated surface area and storage capacity of the Pike Island reservoir.

The applicant will study alternatives for energy transmission and interconnection and use that information to define exact length, route and voltage of this new transmission line, which will likely partially overlay rights-of-way along the existing roads of Tiltonsville, OH.

A proposed approximately 150-ft. long underground 13.8 kV utilidor will connect the powerhouse with the powerhouse-substation under Ohio River Road.

(4) Energy and Capacity

The proposed hydroelectric turbine-generator configuration has a hydraulic capacity of 14,200 cfs and a net proposed power capacity of 20 MW. The estimated average annual energy production is 151 GWh, with a capacity factor of 87%. The hydraulic net head used for estimating capacity and energy output is the historical gross head measured at the gages minus estimated head losses in the intake structures. Maximum net head at nominal flows is 21.5 ft.

The proposed operation is run-of-river in accordance with normal flows and reservoir operations of the USACE.

(5) Lands within the United States

The Pike Island Project will be partially located on Federal property owned by the USACE, in the vicinity of the Pike Island Locks and Dam site. Lands of the United States included in the project boundary have been identified on a completed land description form (FERC Form 587) attached to this filing.

A copy of the form has also been sent to the Bureau of Land Management state office, at:

BLM Eastern States State Office
20 M Street SE, Suite 950
Washington, DC 20003

(6) Development, Conservation, and Utilization of Water Resource

The Pike Island Project will create an environmentally responsible, low-impact utilization of a currently unused renewable energy source, which will provide electrical power to help satisfy the energy and capacity demands of the region.

The project proposal is designed to provide baseload energy generation. The project's design flow will be exceeded by the available flow 98.1% of the time, having a minimal impact on the aquatic environment during operation, as the spillway will remain to convey most of the discharge. The design approach aims to optimally use the installed equipment, reducing the project's physical dimensions and its impact on land and water use.

The project is configured to have a minimum impact on the existing USACE Locks and Dam facilities. The project's construction and operation will not affect the Pike Island Locks and Dam's river barge transportation operations. The river flow and reservoir levels will remain under the exclusive control of the USACE Pittsburgh District. The hydroelectric powerhouse operations would be strictly run-of-river and coordinated each day with USACE.

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SECTION 4.81 (C) EXHIBIT 2 – DESCRIPTION OF STUDIES

In preparation for this preliminary permit application, the applicant has reviewed and considered previous filings and public documents related to the Pike Island Locks and Dam and included certain elements within this filing.

The applicant will develop the Pike Island Project concurrent with the proposed New Cumberland Locks and Dam Hydroelectric Project (P-15045, New Cumberland Locks and Dam Hydroelectric Project). The New Cumberland Locks and Dam Hydroelectric Project is located 30 miles upstream of the Pike Island Project on the Ohio River at the U.S. Army Corps of Engineers' New Cumberland Locks and Dam. Developing the two projects simultaneously creates many synergies for all stakeholders, the Commission, resource agencies, as well as the developer and eventual operator.

In pursuit of this endeavor, the applicant has already completed portions of the studies indicated below, specifically tasks (a) through (g), determining the project is economically feasible (f). To underline the applicant's determination to move forward with the development of the Pike Island Project, the applicant is submitting in conjunction with this preliminary permit application the Notice of Intent (h) and the Pre-Application Document (i) for the project.

The applicant further has procured the services of a U.S. Fish and Wildlife Service Qualified Freshwater Mussel Surveyor to begin prior to October 1, 2021 – in consultation with the USFWS, the Ohio Division of Natural Resources, and the West Virginia Division of Natural Resources – collecting data about this crucial natural resource (Aquatic Habitat Study and Mussel Survey), as documented in previous comments from resource agencies regarding development at the Pike Island Locks and Dam (j).

Upon issuance of a Preliminary Permit, the applicant proposes to continue the consultation, its scoping activities, and development efforts to support the preparation of an application for License, as detailed below.

It is anticipated that all tasks will be completed to support the applicant's interest to file a FERC license application within 12 months.

(1) (i) General Description of Proposed Studies

- a. Information Review:** Publicly available general information will be compiled and reviewed. This will include: engineering and "as built" records from the construction of the existing dam; local survey data; utility distribution and transmission information; material previously submitted to FERC for earlier

development initiatives; any studies or surveys that have been done concerning the dam structure, the upstream pool, and the reach of the waterway.

- b. Hydrologic Studies:** Publicly available USGS and USACE gaging station record data will be used to develop detailed daily stream flow forecasts at the project site. USACE operational information for the gates will be incorporated to determine actual flows available for generation. Historic USACE data records for upper and lower pool elevations, as well as field data will be gathered and used to develop head data for the proposed turbine location. A combination of flow and stage data will be used to model hydraulics and support energy production calculations.
- c. Develop and Review Alternatives:** Project layout and sizing alternatives will be developed and evaluated in order to minimize environmental impacts, maximize financial project viability, and otherwise select the optimal project to ensure the best possible use of resources.
- d. Preliminary Engineering and Design:** The information generated in the preceding studies will be incorporated into an optimized design suitable for a definitive estimate of project cost and feasibility.
- e. Energy Generation and Cost Estimates:** The flow and head data created in Task (b) coupled with the selected project design alternatives from Tasks (c) and (d) will allow energy generation to be modeled for the project. Daily forecast energy generation will be determined and typical, wet, and dry year generation estimates will be made. Initial budgetary development and construction costs will be developed. A tentative permitting and construction schedule will be defined.
- f. Feasibility Analysis:** The previous work will be compiled into a final feasibility analysis along with data gathered on then-current and forecast wholesale power prices, financing costs, and O&M costs to determine the economic feasibility of the project.
- g. Informal Stakeholder Consultation and Discussions**
- h. Develop Notice of Intent (NOI)**
- i. Develop Pre-Application Document (PAD)**
- j. Begin Scoping Activities**
- k. Formal Stakeholder Consultation and Discussions**
- l. Conduct Studies and Obtain Information**
- m. Develop Draft License Application**
- n. File License Application**

(1) (ii) General Description of New Road Construction

Access for all field surveys will be via existing roads. No new roads are required for the purpose of conducting the above studies.

(2) Work Plan for New Dam Construction

The proposed project is located at the existing Pike Island Locks and Dam and will not require new dam construction.

(3) Waiver

The Applicant requests that the Commission waive the requirements of paragraph (c)(2), as no new dam construction is proposed.

(4) (i) Statement of Estimated Costs:

The total cost for completing tasks (a) through (f) as outlined above is estimated to be \$80,000. If task (g) through (j) are undertaken the total cost is estimated to not exceed \$300,000. The cost of tasks (k) through (n) strongly depend on the outcome of the previous tasks, but are estimated to be between \$500,000 and \$1,000,000.

(4) (ii) Statement of Expected Sources of Financing:

The studies will be financed by the Applicant.

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SECTION 4.81 (D) EXHIBIT 3 – MAPS

The attached figures contain maps displaying the relevant project parameters as described:

(1) General Location of Proposed Project

Figure 1 shows the general location of the proposed project on the Ohio River, less than 6 miles north of Wheeling, WV. The map displays the relevant state boundaries - including the Ohio-West Virginia boundary along the Ohio River, the West Virginia – Pennsylvania boundary - and the relevant counties, including Ohio County, WV, Belmont County, OH, and Jefferson County, OH. Also shown are some of the larger cities in the area, specifically Wheeling, WV. Figure 2 offers a more detailed view of the project vicinity.

(2) Project Features

Figure 2 shows the relative locations and physical interrelationships of the principal proposed project features identified in the general description. Access is proposed to be provided directly from River Rd.

(3) Proposed Boundary

Figure 2 also shows the proposed project boundary.

(4) National Wild and Scenic Rivers Systems

No areas in the project vicinity are included (or are known to have been designated for study for inclusion) in the National Wild and Scenic Rivers System. Hence no attached figure/map.

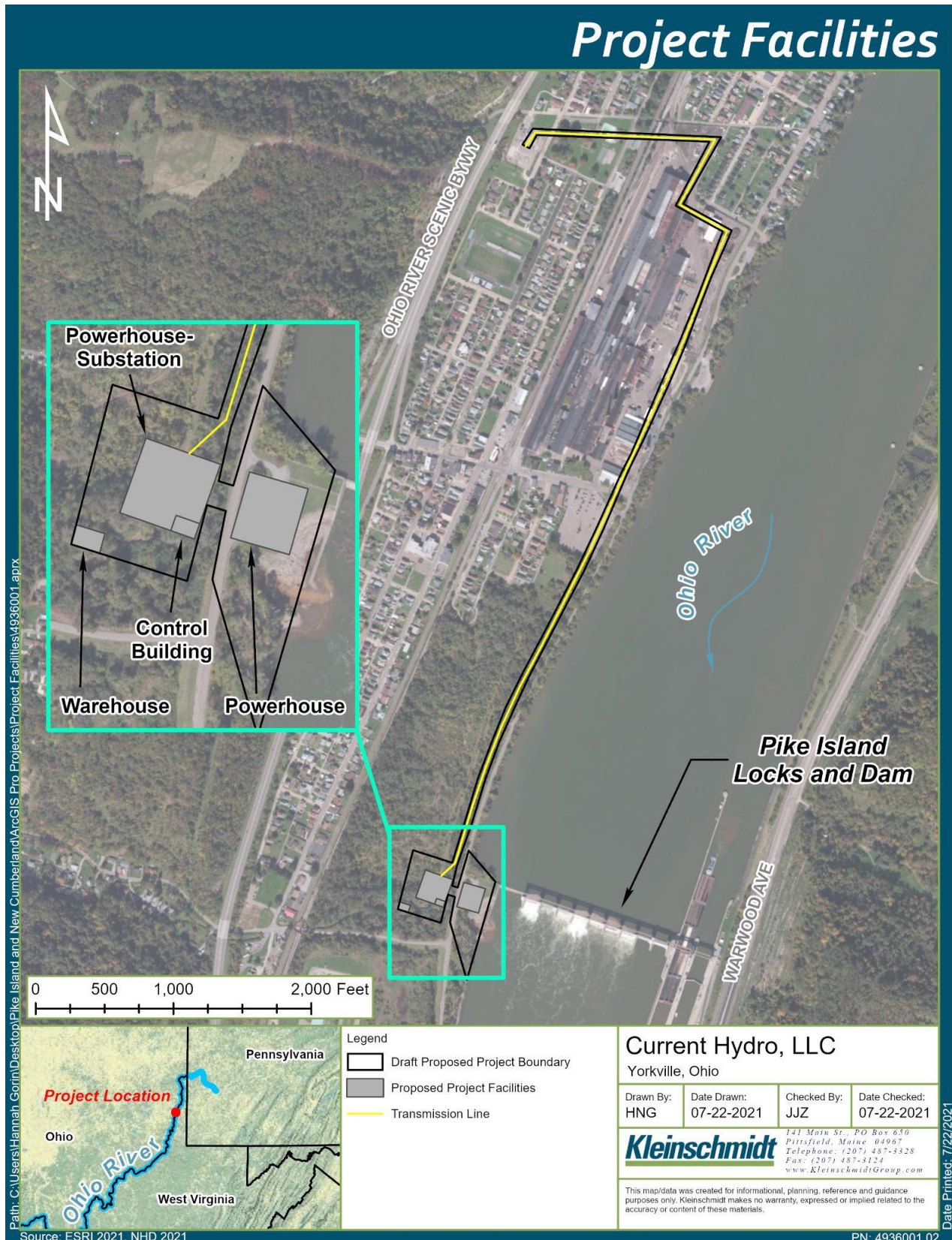
(5) Designated Wilderness Areas

No areas within the project boundary have been designated as wilderness area. No areas within the project boundary are known to be recommended for designation as wilderness. Hence no attached figure/map.

Figure 1 - General Location of Proposed Project



Figure 2 - Project Facilities and Project Boundary



LAND DESCRIPTION

**Public Land States
 (Rectangular Survey System Lands)**

1. STATE Ohio 2. FERC PROJECT NO. Pending

3. TOWNSHIP 4 North RANGE 2 West MERIDIAN 38 : Ohio River Base

4. Check one:

License
 Preliminary Permit

Check one:

Pending
 Issued

If preliminary permit is issued, give expiration date: _____

5. EXHIBIT SHEET NUMBERS OR LETTERS

Section 6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15 See Project Boundary Map	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

6. contact's name Joel Herm

telephone no. (917-244-3607)

Date submitted 01 August 2021