UNITED STATES OF AMERICA

BEFORE THE

FEDERAL ENERGY REGULATORY COMMISSION

APPLICATION FOR PRELIMINARY PERMIT ULYSSES PUMP STORAGE HYDRO PROJECT

FERC PROJECT NO. P- 15012-000

Applicant:

FreedomWorks, LLC

Agent:

Tim Williamson

TABLE OF CONTENTS

Initial Statement

Additional Information (18 CFR 4.32)

Exhibit 1-Project Description

1.1 General Project Description

1.2 Reservoirs

1.3 Existing or Proposed Interconnection to Transmission Lines

1.4 Generating Equipment

1.5 Lands of the United States

1.6 Public Interest

Exhibit 2- Description of Studies

2.1 Studies Process

2.2 Studies to be Completed

2.3 Roads

2.4 New Dam Construction

2.5 Schedule for Studies

Exhibit 3- Cost and Financing

3.1 Estimated Costs

3.2 Financial Sources

3.3 Proposed Market

Exhibit 4-Project Maps

4.1 FERC FORM 587

4.2 Sketch Drawings SK-1 through SK-9

SK-1 Ulysses Pump Storage Hydro Project General Facility Area

SK-2 Ulysses Pump Storage Hydro Project Upper Reservoir

SK-3 Ulysses Pump Storage Hydro Project Upper Reservoir Landowners

SK-4 Ulysses Pump Storage Hydro Project Upper Reservoir Landowners

SK-5 Ulysses Pump Storage Hydro Project Upper Reservoir Landowners

SK-6 Ulysses Pump Storage Hydro Project Lower Reservoir

SK-7 Ulysses Pump Storage Hydro Project Lower Reservoir Landowners

SK-8 Ulysses Pump Storage Hydro Project Lower Reservoir Landowners

SK-9 Ulysses Pump Storage Hydro Project Schematic Drawing

BEFORE THE FEDERAL ENERGY REGULATORY COMMISSION

Application for Preliminary Permit

1) FreedomWorks, LLC applies to the Federal Energy Regulatory Commission for a preliminary permit for the proposed Ulysses Pump Storage Hydro Project, as described in the attached exhibits. This application is made in order that the applicant may secure and maintain priority of application for a license for the project under Part I of the Federal Power Act while obtaining the data and performing the acts required to determine the feasibility of the project and to support an application for a license.

2) The location of the proposed project is:

State or territory:	WV
County:	Grant County
Township or nearby town:	Bismark
Stream or other body of water:	N/A

3) Applicant's Contact Information

The exact name, business address, and telephone number of the applicant are:

FreedomWorks, LLC.
Tim Williamson
525 Wren Lane
Harpers Ferry, WV 25425
Email: TimWilliamson@FreedomWorks.net
Phone: 202-369-6324

The exact name and business address of each person authorized to act as agent for the applicant is:

Tim Williamson
525 Wren Lane
Harpers Ferry, WV 25425
Email: TimWilliamson@FreedomWorks.net
Phone: 202-369-6324

4) Statement of Authority:

FreedomWorks, LLC. is a Corporation located in Harpers Ferry, WV. It is organized under the laws of the State of Delaware and as such, the Applicant is qualified under §4(e) of the Federal Power Act (FPA) to hold hydroelectric licenses issued under Part 1 of the FPA. The Applicant is not claiming preference under §7(a) of the FPA at this time.

5) The proposed term of the requested permit is 48 Months.

6) Existing Dams or Other Project Facilities

There are no existing dams or project facilities.

A: Additional Information (18 CFR 4.32)

1) The Applicant intends to obtain and will maintain and proprietary rights necessary to construct operate or maintain the project.

2) **The names and mailing addresses of entities affected or used by the proposed project are provided below.**
    a) County in which the project would be located:
        i. Grant County

3) **City, Town or similar local political subdivision**
    a) Every City, town or similar political subdivision in which the project would be located:

        8,000 Old Scherr Road
        Scherr, WV 26726

    b) Every city, town or similar political subdivision that has a population of 5,000 or more people and is located within 15 miles of the project:

        There is no city, town or similar political subdivision that has a population of 5,000 or more people within 15 miles of the project.

4) **Every irrigation district, drainage district, or similar 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:

    There are no known irrigation or drainage districts we are aware of and no federal facilities that would be used in the project.

5) **Every other political subdivision in the general area of the project that there is reason to believe would likely be interested in, or affected by, the application:**

    Dominion Energy
    Mt. Storm Power Plant
    Mt. Storm, WV 26739
    WV Water Development Authority
    1009 Bullitt Street
    Charleston, WV 25301
    WV Department of Natural Resources
    324 Fourth Avenue
    South Charleston, WV 25303

6) **All Indian tribes that may be affected by the project.**

The Applicant is not aware that the Project affects any Native American tribe.

Exhibit 1- Project Description

1.1 General Project Description

Based on current conceptual design, the Ulysses Pump Storage Hydro Project involves the construction of a closed-loop pump-storage hydroelectric generating facility capable of producing approximately 4,000 MW using two new approximately 1042/1139-acre sized reservoirs. The basic configuration would include:

- As many as eight pumping/generating units contained in as many as one powerhouse
- As many as one Upper Reservoir
  - One approximately 1042-acre upper reservoir created through construction of two dams retaining approximately 141,000 acre-feet of water.
- As many as one Lower Reservoir
  - One approximately 1139-acre lower reservoir created through construction of two dams retaining approximately 141,000 acre-feet of water.
- A 500-kilovolt direct interconnection that transmits project power from the powerhouse to the one of three existing 500 kV transmission lines located directly above the powerhouse.
- As many as three 288“ Penstocks approximately 36,960 feet long. An additional connection may join the two reservoirs.
- Lower Reservoir will have a gross head of approximately 1,670 feet.
- **The location of emergency spillways is unknown at this time and will be included in the study phase 2.2.7**.

Both the upper and lower reservoir areas are currently privately held lands, owned by 54 separate parties (33 each at upper reservoir; 21 each at lower reservoir).

The Applicant anticipates that the upper reservoir will be filled from local inflows including initial charge from groundwater inputs and Stoney River, and operated at a surface elevation between 2860-2960 feet above mean sea level (msl). In addition, the Applicat anticipates the lower reservoir will be filled from groundwater inputs and North Fork Patterson Creek, and operated at a surface elevation between 1,180-1,280 feet above mean sea level (msl).

Preliminary estimates indicate both the new upper and lower reservoirs will each have a total surface area of approximately 1,100 acres and hold approximately 141,000 acre-feet of water storage at a pool, and potentially 85,000 acre-feet usable storage. Both reservoirs would potentially be constructed using dam roller compacted concrete or earth and rock excavated from nearby mine site reclamation. Anticipated surface elevation of the upper reservoir is 2,960 feet msl. Anticipated surface elevation of the lower reservoir is 1,280 feet msl.

Additional technical data for pump storage components and infrastructure is provided in Table 1.1 below.

The Applicant has identified that Dominion Energy and First Energy own one 500-kV transmission line and one substation nearby the Project boundary.

The Applicant has identified that First Energy owns one 500-kV transmission line and one 230-kV transmission line and one substation nearby the Project boundary.

The Applicant has identified that NextEra Energy Resources owns one substation nearby the Project boundary.

The average annual generation from this project would be approximately **18 TWh** and the cost of the studies vary from $150,000 to $400,000.

1.2 RESERVOIRS

The estimated number, surface area, storage capacity, and normal maximum surface elevation (mean sea level) of any reservoirs, whether existing or proposed, that would be part of the project:

Upper Reservoir
One, with a surface Area 1,042 acres
Storage Volume approximately 141,000 acre-feet of water
Surface Elevation approximately 2,960 feet above mean sea level
Composition of two Dams Roller-compacted Concrete or Rock-Fill

Lower Reservoir
One, with a surface Area 1,139 acres
Storage Volume approximately 141,000 acre-feet of water
Surface Elevation approximately 1,280 feet above mean sea level
Composition of three Dams Roller-compacted Concrete or Rock-Fill

1.3 EXISTING OR PROPOSED TRANSMISSION LINES

The estimated number, length, voltage, interconnections, and, where applicable, age and condition, of any primary transmission lines whether existing or proposed, that would be part of the project [*see* 16 U.S.C. 796(11)];

(1) There are three existing transmission lines located near Mt. Storm and the proposed project site. Dominion Energy owns one circuit near the site. Dominion Energy Resources and First Energy jointly own one circuit near the site. The Mt. Storm to Meadowbook 500 kV circuit is directly overhead of the proposed project pump house and the Mt. Storm to Kemptown 500 kV circuit is also directly overhead of the proposed from the project site and pump house.
(2) These sites are located in the general map. While we have only drawn 1 direct transmission interconnection line to the Mt. Storm to Meadowbrook 500 kV transmission line, we note other possibilities exist within the project boundary indicated and labeled on the map.
(3) The Applicant will conduct studies to determine the location, number of circuits, voltage, and configuration of the project's interconnection with the regional utility network.
(4) This project will also evaluate the use of any Transmission Circuits developed and related to the Ned Power Wind Farm, and Greenland Gap Wind Farms, both of which are adjacent to the project.
(5) A PJM Generation Interconnection Study is being planned as part of this study.

1.4 GENERATING EQUIPMENT

Hydroelectric Plant
(1) Nominal Capacity 4,000 MW
(2) Number of Units 8 units
(3) Composition Francis or Pelton
(4) Diameter 288"

Penstocks
(5) From Upper Reservoir 3- 288" approximately 36,960 feet

Powerhouse
(6) Height approximately 25 feet
(7) Length approximately 800 feet
(8) Width approximately 50 feet

Average Annual Energy Production

Assuming a twenty-four-hour generation time and based on preliminary design of 3200 MW rated-power generation, the Applicant anticipates an energy output of about **48,000** MWh per day, or **18** TWh annually.

1.5 LANDS OF THE UNITED STATES

- The project area and the proposed project boundary are not located on any lands of the United States.
- There are no known areas within or in the vicinity of the proposed project boundary that are included in or have been designated for study for inclusion in the National Wild and Scenic Rivers System.
- There are no areas within the proposed project boundary that are known to be under the provisions of the Wilderness Act or that have been designated as wilderness area, recommended for designation as wilderness area, or designated as wilderness study area by the United States Forest Service, or United States Department of Interior .

1.6 PUBLIC INTEREST

- The proposed Ulysses Pump Storage Project will be achieved by installing new hydroelectric generators which will utilize modern, state-of-the-art technology to optimize the clean, renewable electricity generating potential of site in a manner that best develops conserves and utilizes this resource for beneficial public use. The proposed project will fulfill the public interest for a less expensive, more reliable and environmentally sound source of renewable energy while creating energy jobs in an economically depressed area which has lost energy related jobs in the transition away from coal.
- The hydraulic capacity of the Ulysses Pump Storage Project will develop, conserve, protect and utilize in the public interest the public water resources of the region without damage to the environment.
- Development of the proposed project will reduce ozone, acid rain, cross-border air pollution and greenhouse effects associated with coal-fired power plants that currently supply a significant portion of the energy needs of West Virginia.
- The benefits of the proposed Ulysses Pump Storage Project are directly in keeping with the State of West Virginia's Energy Plan to become the leader in transitioning the United States to a new energy future by supporting new renewable energy projects that create jobs and maximize the States natural resources.
- Providing reliable peak energy on demand
- Creating Emergency and Pre-Emergency Load Response for PJM
- Creating Quick Start Reserves and grid storage for the PJM Grid
- Providing a means to store excess energy especially from intermittent renewable sources such as the Mountaineer, NedPower and New Creek Wind Farms at times when demand is low and large thermal plants cannot shed load.
- Enhancing local economics through creation of jobs during construction and for operations.

EXHIBIT 2 DESCRIPTION OF STUDIES

2.1 STUDIES PROCESS

The Applicant has reviewed substantial topographical, parcel ownership, municipal, economic as well as the mechanical and environmental aspects of the project and conducted a field visit.

The applicant will utilize resources to provide financial, planning and water quality related studies.

2.2. STUDIES TO BE COMPLETED

The studies and related work to be completed will provide the applicant with the necessary information to prepare the application for license and to progress the concept development plan to final design. All work will be conducted in a manner so as not to affect cultural resources or endangered species, if any, and to cause minimal disturbance to the land and water. Any land altered or disturbed will be adequately restored to the satisfaction of the owner. The applicant proposes to carry out the studies below to determine the feasibility of the proposed project and support an application for license.

As the studies are being conducted the applicant will consult with appropriate federal, state, municipal and local agencies. The exact scope and scheduling of studies will be coordinated in accordance with consultation related to the integrated licensing process.

2.2.1 GENERAL PLAN AND SURVEY

A general plan and survey of the proposed project will be prepared to delineate the site topographic characteristics and approximate size, location and elevations of existing and proposed facilities.

2.2.2 GEOTECHNICAL STUDIES

The applicant will have a geotechnical engineer review existing geotechnical information and perform a current review and analysis of the project site. The geotechnical engineer will also analyze the geotechnical suitability of the foundation material for construction of any potential location for powerhouse and other structures.

2.2.3 WATER QUALITY STUDIES

Data collection for water quality will consist of reviewing existing water quality of the lower reservoir as well as performing new field sampling. Water quality characteristics of interest will primarily be related to acidity which may affect the Generation equipment.

2.2.4 RECREATION STUDIES

Analysis will be performed to assess potential use of the project area for to ensure that do not interfere with current recreational activities.

2.2.5 HISTORIC AND ARCHAEOLOGICAL STUDIES

There are no records of archaeological studies as the land has been primarily used for residential housing and agriculture. Should any such studies exist, the applicant will have a qualified cultural resources firm review any previous studies and other existing documents, as required, to determine if any additional studies are warranted at this time.

2.2.6 FISHERIES STUDIES

As this project is a closed-loop Pump Storage Hydro Project, field investigation will not include a review of fisheries unless the project feasibility study determines that access to an existing stream or river is necessary to perform the initial charge.

2.2.7 PRELIMINARY DESIGN STUDIES

Preliminary engineering design of the proposed powerhouse and electrical faults will be prepared to delineate the scope, cost and schedule for construction. **The location of emergency spillways will be determined and added within the project boundary.** A projection of energy generation will also be made. The preliminary design data will be utilized in the economic analysis to be preformed for the proposed project.

2.2.8 ECONOMIC ANALYSES

Economic analyses of the proposed project will be performed. The analysis will include estimates of power production and power sales rates. A transmission interconnection study will be performed to determine best location for interconnection and feasibility. The Economic criteria such as net revenue, net present value and benefit/cost ratio will be determined.

2.3 ROADS

No new roads will be built for the purpose of conducting the studies referenced herein.

2.4 NEW DAM CONSTRUCTION

The proposed project contemplates the construction of as many as two new reservoirs. Accordingly, The Applicant will be working with approved State of West Virginia Dam consultants to properly determine the location, size and characteristics of the required reservoirs.

2.5 SCHEDULE FOR STUDIES

The following schedule has been developed for conducting the studies and consultations specified herein and leading up to the submission of a license application to the Commission at the conclusion of the requested 48-month term of the permit. This schedule assumes that a permit will be issued to the Applicant by December 7, 2018. Based on the work to be performed under the requested permit, the Applicant will make a determination as to whether it is appropriate to follow the Integrated Licensing Process or request a waiver for either the Alternative or Traditional Licensing Process.

Permit Issued	Dec 2019
Perform Studies	Jan 2020-Jan 2024
Complete Initial Environmental Analysis	Jan 2022
Initiate License Process	June 2022
File License Application at FERC	Jan 2023

EXHIBIT 3 COST AND FINANCING

3.1. ESTIMATED COSTS

The estimated costs of carrying out and preparing the studies, investigations, tests, surveys, maps, plans and specifications identified in Exhibit 2 is $178,500.00 allocated as follows.

General Plan and Geotechnical Studies	$100,000.00
Water Quality Studies	$1000.00
Recreational Studies	$7,500.00
Historic and Archaeological Studies	$0.0
Fisheries Studies	$0.0
Preliminary Design Studies	$35,000.00
Economic and Market Analysis	$35,000.00
Total	$178,500.00

3.2. FINANCIAL SOURCES

The applicant will provide the necessary financing to conduct the activities identified in Exhibit 2.

3.3. PROPOSED MARKET

Through the development of the proposed Ulysses Pump Storage Hydro Project, the applicant will provide an additional source of clean, renewable energy that will provide added stability and capacity to the PJM and or State of West Virginia's energy markets. It is proposed that the electricity generated at the Ullysses Pump Storage Hydro Project will be offered to the State or sold at market rates to either an electric utility marketer or through the PJM Independent System Operator for transmission to the electric grid. Based upon available feasibility and marketing studies conducted for the electric power market in the vicinity of the proposed project, project revenues are expected to be adequate to construct and operate the Ullysses Pump Storage Hydro Project and to yield a reasonable rate of return on investment.

3.4. NOTARIZED STATEMENT OF SUBSCRIPTION AND VERIFICATION

This (application,etc.) is executed in the:

State of: West Virginia

County of: Jefferson

by: Tim Williamson
525 Wren Lane
Harpers Ferry, WV 25425

Being duly sworn, depose(s) and say(s) that the contents of this (application, etc.) are true to the best of (his or her) knowledge or beliefs. The undersigned applicant(s) has (have) signed the (application, etc.) this 16th day of October, 2019

By: _____

Subscribed and sworn to before me a Notary Public [Notary Public, or title of other official authorized by the state to notarize documents, as appropriate] of the State of West Virginia this 16th day of October, 2019.

/Seal/ (if any)

OFFICIAL SEAL
Notary Public, State Of West Virginia
VICTORIA C. WALTON
Kratovil Law Offices, PLLC
211 W. Washington Street Charles Town, WV 25414
My Commission Expires January 19, 2021

Victoria C. Walton
(Notary Public, or other authorized official)

4.1 FERC FORM 587

Form FERC-587
OMB No. 1902-0145
(Expires 10/31/2018)

LAND DESCRIPTION

Non-Public Land States
(and Non-Rectangular Survey System Lands in Public Land States)

1. STATE WV 2. FERC PROJECT NO. P-15012-000

3. FEDERAL RESERVATION: None

4. FEDERAL LAND HOLDING AGENCY: N/A

5. Counties: Grant County

6. Check one:
_____ License
_X_ Preliminary Permit

Check one:
_X_ Pending
_____ Issued

If preliminary permit is issued, give expiration date: _____

7. Federal Tract(s) Identification	8. Exhibit Sheet Number(s) or Letter(s)
None	N/A

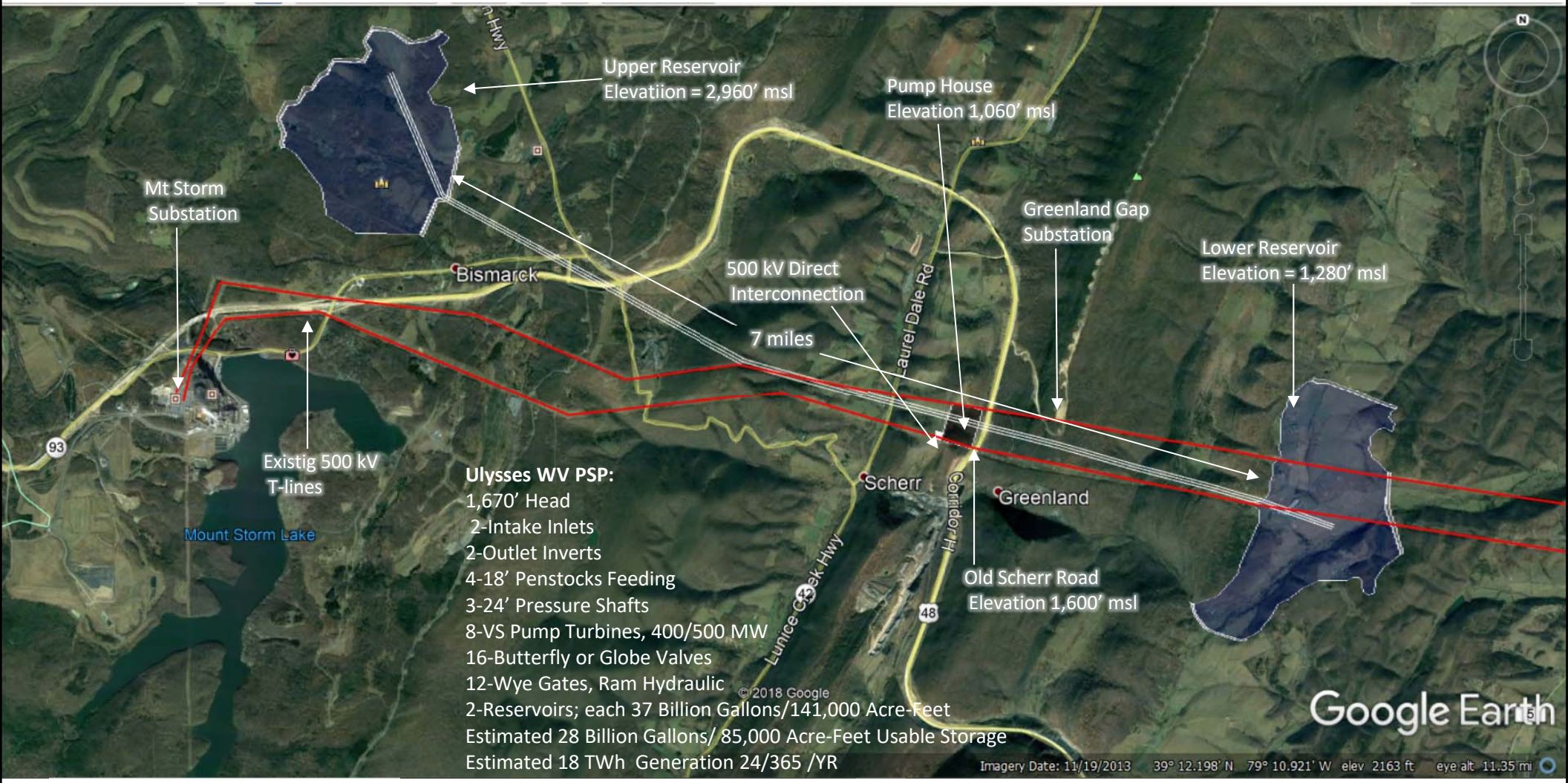
9. contact's name Tim Williamson

telephone no. (202-369-6324)

date submitted October 16, 2019

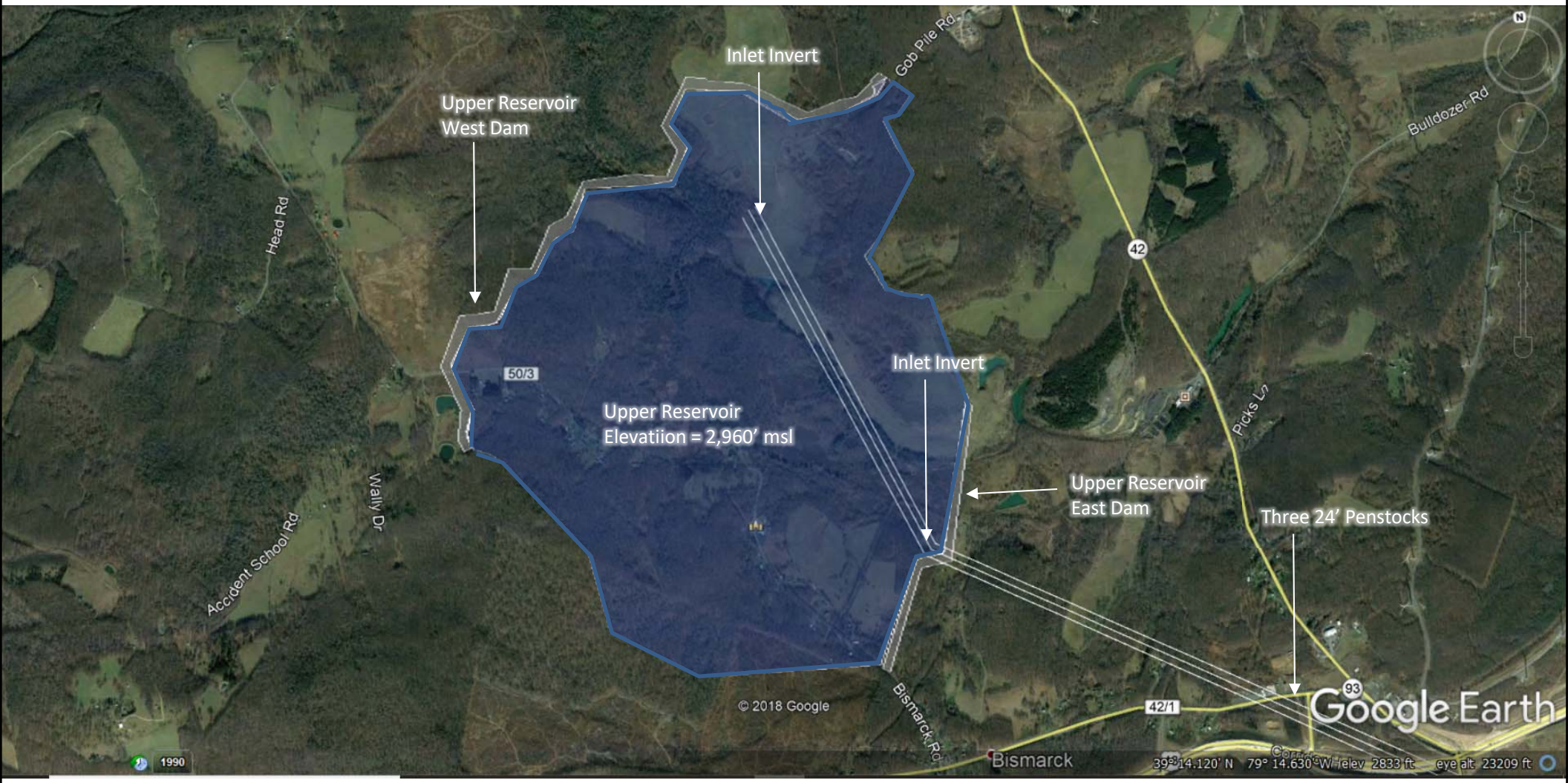
This information is necessary for the Federal Energy Regulatory Commission to discharge its responsibilities under Section 24 of the Federal Power Act.

Ulysses PSP
4 GW 100% RE Pump Storage Hydropower Project
Grant County, WV



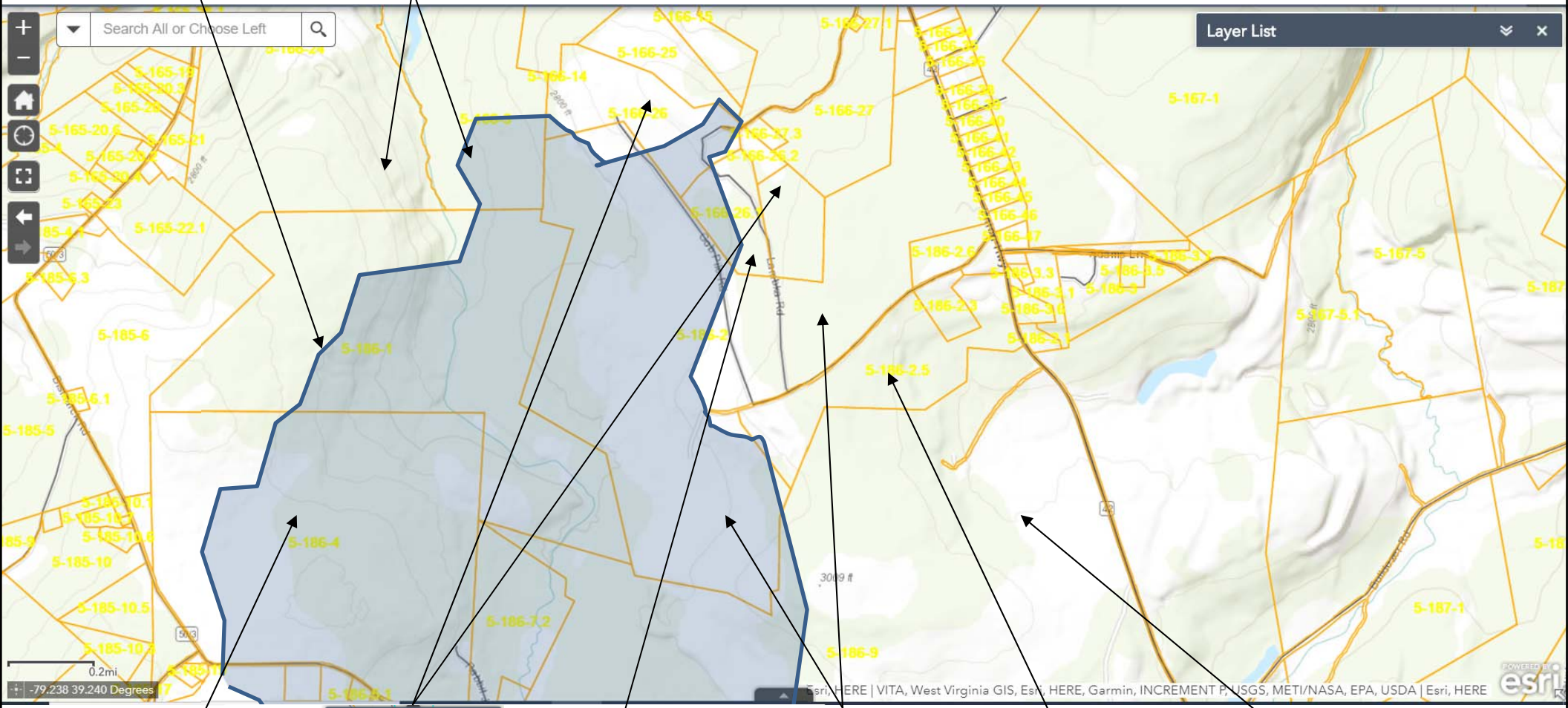
SK-1 Plan View: General Area

Ulysses PSP
4 GW 100% RE Pump Storage Hydropower Project
Upper Reservoir



SK-2 Plan View Upper Reservoir

Ulysses PSP
Upper Reservoir Landowners



WESTERN POCAHONTAS PROPERTIES

mapcard	More info
parid	05 186000100000000
dmp	5-186-1
acres	
nbhd	0050
own1	WESTERN POCAHONTAS PROPERTIES
own2	LIMITED PARTNERSHIP
careof	
owneraddr	5260 IRWIN RD
situsaddr	OFF BISMARCK
cityname	HUNTINGTON
statecode	WV
legal1	260 AC C-31 FXO&G

Zoom to

KALORAMA CORP

mapcard	More info
parid	05 166002400000000
dmp	5-166-24
acres	235.23
nbhd	0050
own1	KALORAMA CORP
own2	
careof	
owneraddr	P O BOX 5
situsaddr	OFF RT 42
cityname	MT STORM
statecode	WV
legal1	235.23 AC SURFACE

Zoom to

HOOD FAMILY LIMITED LIABILITY

mapcard	More info
parid	05 186000400000000
dmp	5-186-4
acres	251.05
nbhd	0050
own1	HOOD FAMILY LIMITED LIABILITY
own2	LIMITED PARTNERSHIP
careof	
owneraddr	11531 COPPERMINE RD
situsaddr	OFF BISMARCK RD
cityname	UNION BRIDGE
statecode	MD
legal1	251.05 AC SURFACE

Zoom to

LAMBKA NEIL LIFE

mapcard	More info
parid	05 166002600000000
dmp	5-166-26
acres	60.09
nbhd	0050
own1	LAMBKA NEIL LIFE
own2	
careof	
owneraddr	248 WYCROFF RUN RD
situsaddr	600 LAMBKA RD
cityname	MT STORM
statecode	WV
legal1	60.09 AC

Zoom to

MARTIN JONATHAN E

mapcard	More info
parid	05 166002600010000
dmp	5-166-26.1
acres	22.03
nbhd	0050
own1	MARTIN JONATHAN E
own2	
careof	
owneraddr	830 LAMBKA RD
situsaddr	830 LAMBKA RD
cityname	MT STORM
statecode	WV
legal1	22.03 AC

Zoom to

SMITH ISAIAH J ETAL

mapcard	More info
parid	05 186000200000000
dmp	5-186-2
acres	356.02
nbhd	0050
own1	SMITH ISAIAH J ETAL
own2	
careof	
owneraddr	424 BLACK TRAIL DR
situsaddr	OFF RT 42
cityname	KEYSER
statecode	WV
legal1	356.02 AC TR 1 & 1/2 MINERALS

Zoom to

KITZMILLER GARY D

mapcard	More info
parid	05 186000200050000
dmp	5-186-2.5
acres	70.69
nbhd	0050
own1	KITZMILLER GARY D
own2	
careof	
owneraddr	P O BOX 92
situsaddr	
cityname	MT STORM
statecode	WV
legal1	70.69 AC TR 2 (1/2 O/G &

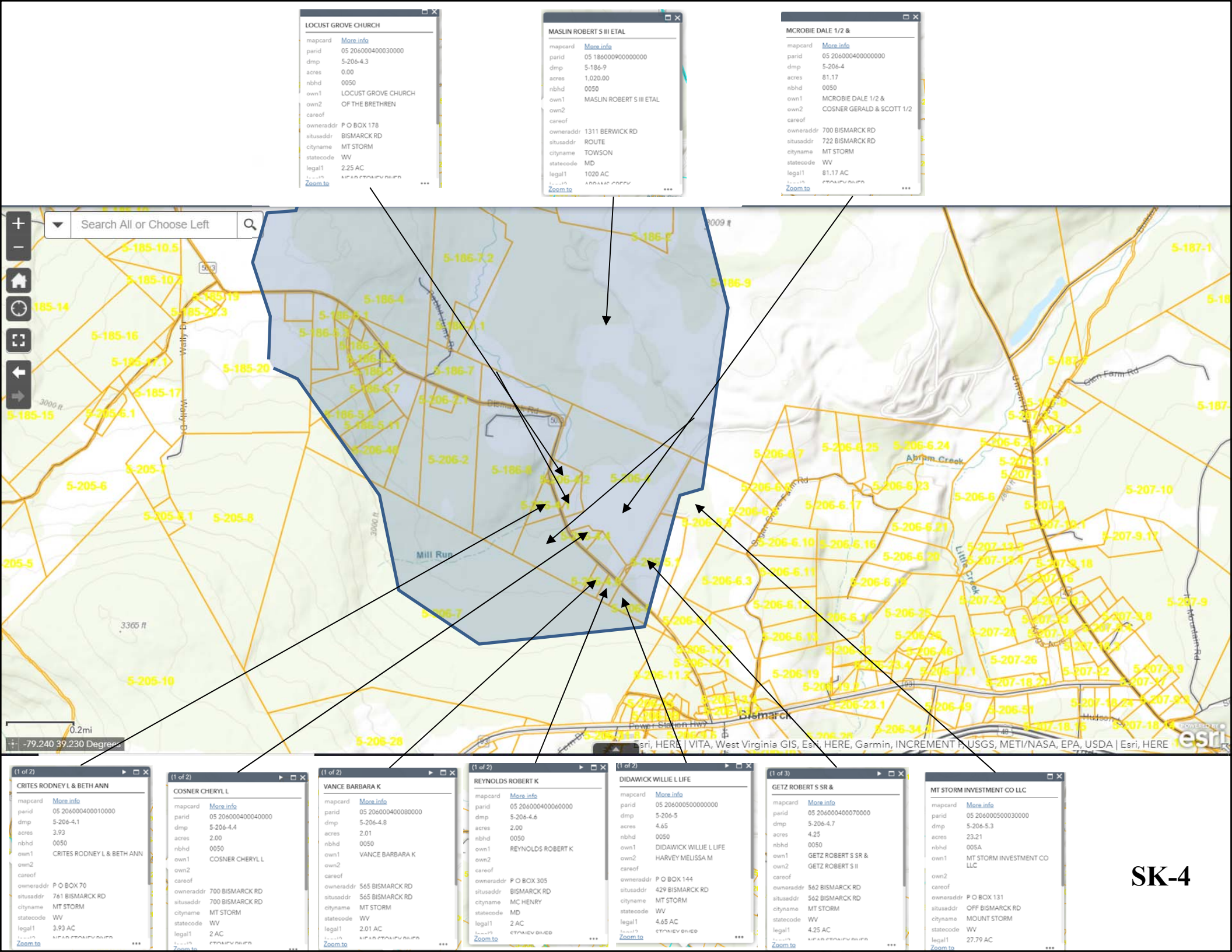
Zoom to

MASLIN ROBERT S III ETAL

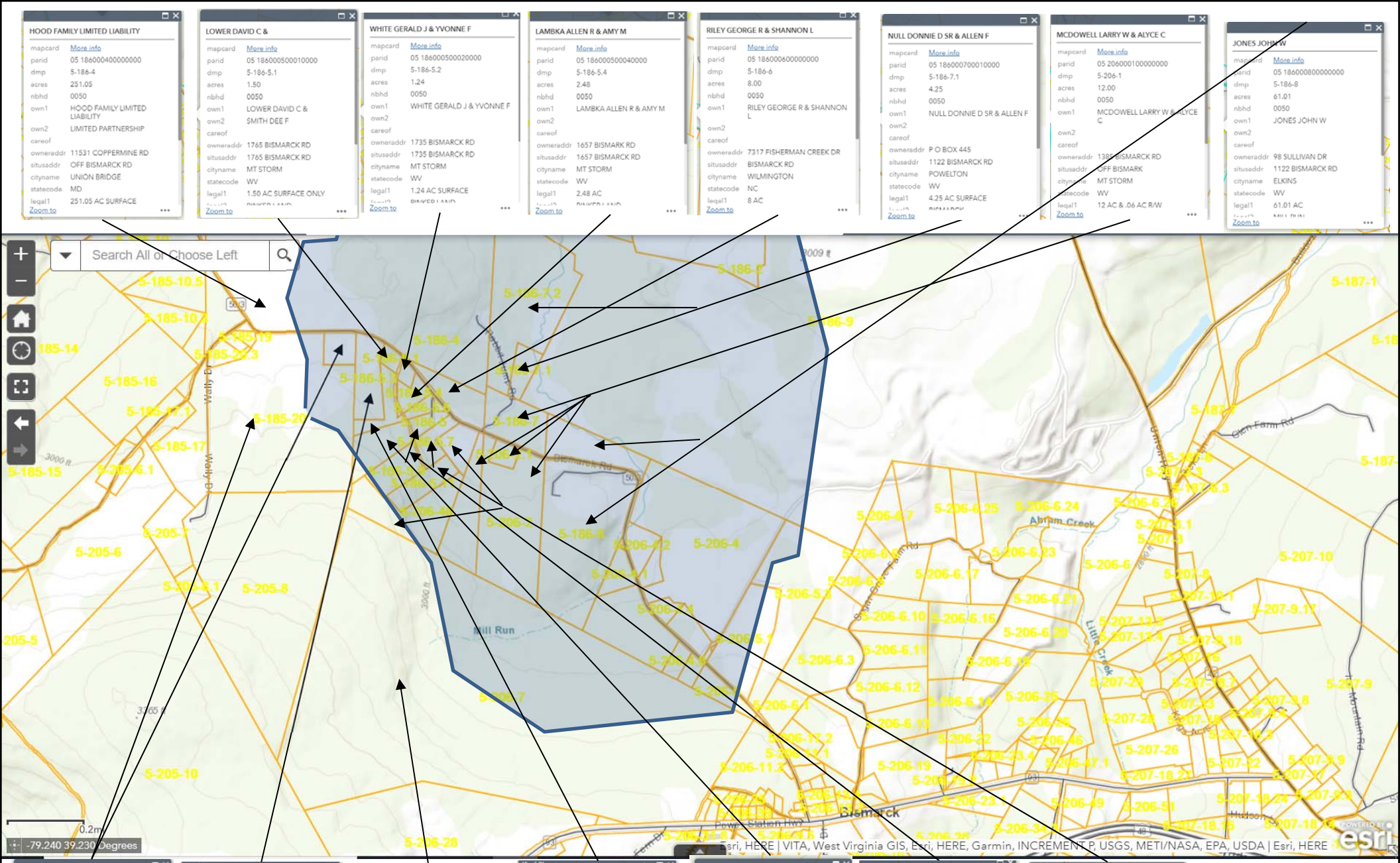
mapcard	More info
parid	05 186000900000000
dmp	5-186-9
acres	1,020.00
nbhd	0050
own1	MASLIN ROBERT S III ETAL
own2	
careof	
owneraddr	1311 BERWICK RD
situsaddr	ROUTE
cityname	TOWSON
statecode	MD
legal1	1020 AC

Zoom to

SK-3

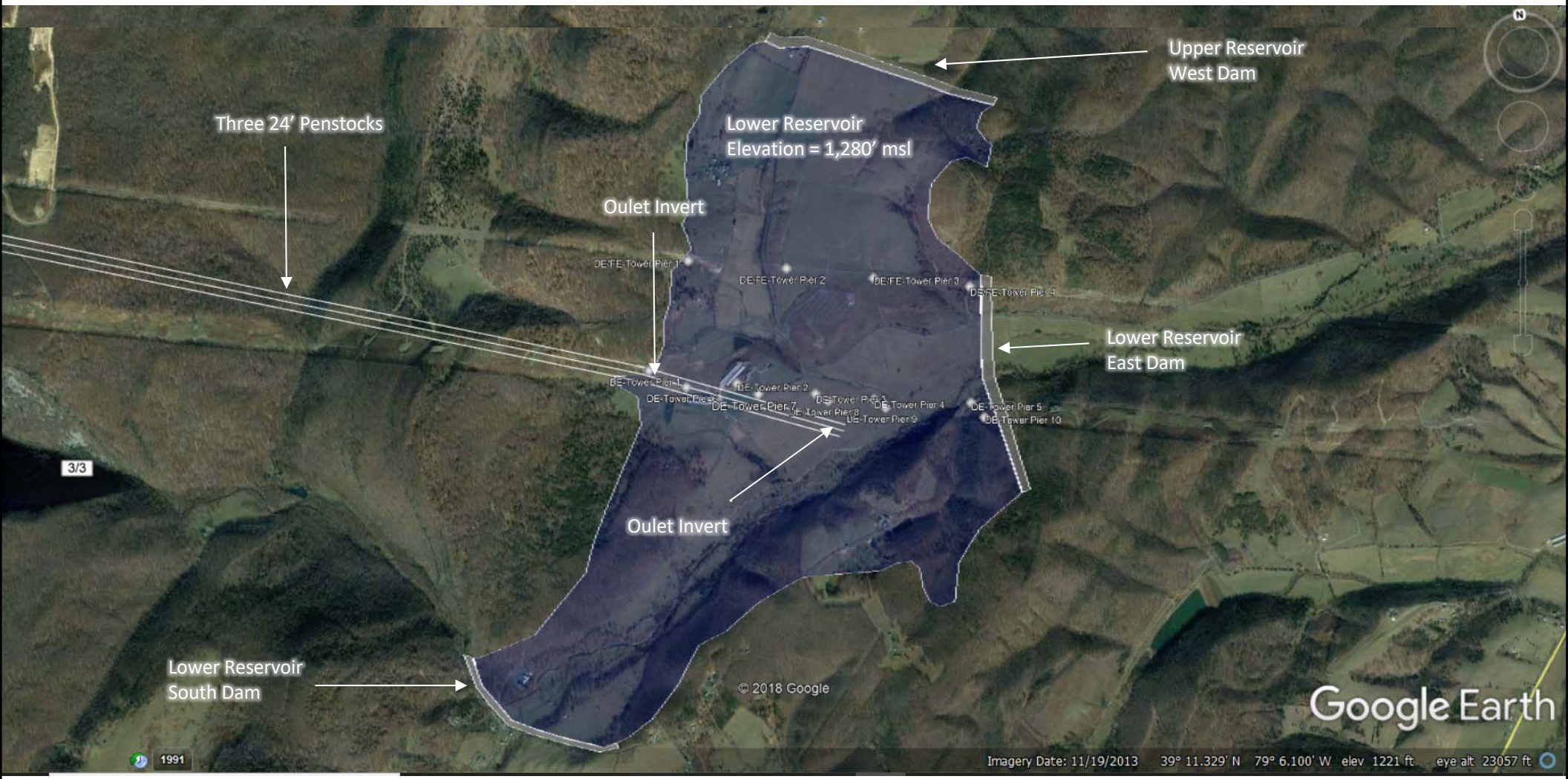

LOCUST GROVE CHURCH
mapcard More info
parid 05 206000400030000
dmp 5-206-4.3
acres 0.00
nbhd 0050
own1 LOCUST GROVE CHURCH
own2 OF THE BRETHREN
careof
owneraddr P O BOX 178
situsaddr BISMARCK RD
cityname MT STORM
statecode WV
legal1 2.25 AC
Zoom to
MASLIN ROBERT S III ETAL
mapcard More info
parid 05 186000900000000
dmp 5-186-9
acres 1,020.00
nbhd 0050
own1 MASLIN ROBERT S III ETAL
own2
careof
owneraddr 1311 BERWICK RD
situsaddr ROUTE
cityname TOWSON
statecode MD
legal1 1020 AC
Zoom to
MCROBIE DALE 1/2 &
mapcard More info
parid 05 206000400000000
dmp 5-206-4
acres 81.17
nbhd 0050
own1 MCROBIE DALE 1/2 &
own2 COSNER GERALD & SCOTT 1/2
careof
owneraddr 700 BISMARCK RD
situsaddr 722 BISMARCK RD
cityname MT STORM
statecode WV
legal1 81.17 AC
Zoom to
Search All or Choose Left
Mill Run
Bismarck
Abram Creek
Little Creek
Glen Farm Rd
Power Station Hwy
0.2mi
-79.240 39.230 Degrees
Esri, HERE | VITA, West Virginia GIS, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA | Esri, HERE
CRITES RODNEY L & BETH ANN
mapcard More info
parid 05 206000400010000
dmp 5-206-4.1
acres 3.93
nbhd 0050
own1 CRITES RODNEY L & BETH ANN
own2
careof
owneraddr P O BOX 70
situsaddr 761 BISMARCK RD
cityname MT STORM
statecode WV
legal1 3.93 AC
Zoom to
COSNER CHERYL L
mapcard More info
parid 05 206000400040000
dmp 5-206-4.4
acres 2.00
nbhd 0050
own1 COSNER CHERYL L
own2
careof
owneraddr 700 BISMARCK RD
situsaddr 700 BISMARCK RD
cityname MT STORM
statecode WV
legal1 2 AC
Zoom to
VANCE BARBARA K
mapcard More info
parid 05 206000400080000
dmp 5-206-4.8
acres 2.01
nbhd 0050
own1 VANCE BARBARA K
own2
careof
owneraddr 565 BISMARCK RD
situsaddr 565 BISMARCK RD
cityname MT STORM
statecode WV
legal1 2.01 AC
Zoom to
REYNOLDS ROBERT K
mapcard More info
parid 05 206000400060000
dmp 5-206-4.6
acres 2.00
nbhd 0050
own1 REYNOLDS ROBERT K
own2
careof
owneraddr P O BOX 305
situsaddr BISMARCK RD
cityname MC HENRY
statecode MD
legal1 2 AC
Zoom to
DIDAWICK WILLIE L LIFE
mapcard More info
parid 05 206000500000000
dmp 5-206-5
acres 4.65
nbhd 0050
own1 DIDAWICK WILLIE L LIFE
own2 HARVEY MELISSA M
careof
owneraddr P O BOX 144
situsaddr 429 BISMARCK RD
cityname MT STORM
statecode WV
legal1 4.65 AC
Zoom to
GETZ ROBERT S SR &
mapcard More info
parid 05 206000400070000
dmp 5-206-4.7
acres 4.25
nbhd 0050
own1 GETZ ROBERT S SR &
own2 GETZ ROBERT S II
careof
owneraddr 562 BISMARCK RD
situsaddr 562 BISMARCK RD
cityname MT STORM
statecode WV
legal1 4.25 AC
Zoom to
MT STORM INVESTMENT CO LLC
mapcard More info
parid 05 206000500030000
dmp 5-206-5.3
acres 23.21
nbhd 005A
own1 MT STORM INVESTMENT CO LLC
own2
careof
owneraddr P O BOX 131
situsaddr OFF BISMARCK RD
cityname MOUNT STORM
statecode WV
legal1 27.79 AC
Zoom to

SK-4


HOOD FAMILY LIMITED LIABILITY
mapcard More info
parid 05 186000400000000
dmp 5-186-4
acres 251.05
nbhd 0050
own1 HOOD FAMILY LIMITED LIABILITY
own2 LIMITED PARTNERSHIP
careof
owneraddr 11531 COPPERMINE RD
situsaddr OFF BISMARCK RD
cityname UNION BRIDGE
statecode MD
legal1 251.05 AC SURFACE
Zoom to
LOWER DAVID C &
mapcard More info
parid 05 186000500010000
dmp 5-186-5.1
acres 1.50
nbhd 0050
own1 LOWER DAVID C &
own2 SMITH DEE F
careof
owneraddr 1765 BISMARCK RD
situsaddr 1765 BISMARCK RD
cityname MT STORM
statecode WV
legal1 1.50 AC SURFACE ONLY
Zoom to
WHITE GERALD J & YVONNE F
mapcard More info
parid 05 186000500020000
dmp 5-186-5.2
acres 1.24
nbhd 0050
own1 WHITE GERALD J & YVONNE F
own2
careof
owneraddr 1735 BISMARCK RD
situsaddr 1735 BISMARCK RD
cityname MT STORM
statecode WV
legal1 1.24 AC SURFACE
Zoom to
LAMBKA ALLEN R & AMY M
mapcard More info
parid 05 186000500040000
dmp 5-186-5.4
acres 2.48
nbhd 0050
own1 LAMBKA ALLEN R & AMY M
own2
careof
owneraddr 1657 BISMARCK RD
situsaddr 1657 BISMARCK RD
cityname MT STORM
statecode WV
legal1 2.48 AC
Zoom to
RILEY GEORGE R & SHANNON L
mapcard More info
parid 05 186000600000000
dmp 5-186-6
acres 8.00
nbhd 0050
own1 RILEY GEORGE R & SHANNON L
own2
careof
owneraddr 7317 FISHERMAN CREEK DR
situsaddr BISMARCK RD
cityname WILMINGTON
statecode NC
legal1 8 AC
Zoom to
NULL DONNIE D SR & ALLEN F
mapcard More info
parid 05 186000700010000
dmp 5-186-7.1
acres 4.25
nbhd 0050
own1 NULL DONNIE D SR & ALLEN F
own2
careof
owneraddr P O BOX 445
situsaddr 1122 BISMARCK RD
cityname POWELTON
statecode WV
legal1 4.25 AC SURFACE
Zoom to
MCDOWELL LARRY W & ALYCE C
mapcard More info
parid 05 206000100000000
dmp 5-206-1
acres 12.00
nbhd 0050
own1 MCDOWELL LARRY W & ALYCE C
own2
careof
owneraddr 1365 BISMARCK RD
situsaddr OFF BISMARK
cityname MT STORM
statecode WV
legal1 12 AC & .06 AC R/W
Zoom to
JONES JOHN W
mapcard More info
parid 05 186000800000000
dmp 5-186-8
acres 61.01
nbhd 0050
own1 JONES JOHN W
own2
careof
owneraddr 98 SULLIVAN DR
situsaddr 1122 BISMARCK RD
cityname ELKINS
statecode WV
legal1 61.01 AC
Zoom to
Search All or Choose Left
Bismarck Rd
Mill Run
Abram Creek
Glen Farm Rd
Little Creek
Bismarck
Esri, HERE | VITA, West Virginia GIS, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA | Esri, HERE
-79.240 39.230 Degrees
BOMBERGER LAWRENCE J
mapcard More info
parid 05 185002000000000
dmp 5-185-20
acres 85.49
nbhd 0050
own1 BOMBERGER LAWRENCE J
own2
careof
owneraddr 3025 BISMARCK RD
situsaddr 3025 BISMARCK RD
cityname MT STORM
statecode WV
legal1 85.46 AC SURFACE
Zoom to
LILLER LINDA J
mapcard More info
parid 05 186000500030000
dmp 5-186-5.3
acres 9.18
nbhd 0050
own1 LILLER LINDA J
own2
careof
owneraddr 1865 BISMARCK RD
situsaddr 1865 BISMARCK RD
cityname MT STORM
statecode WV
legal1 9.18 AC
Zoom to
WESTERN POCAHONTAS PROPERTIES
mapcard More info
parid 05 206000700000000
dmp 5-206-7
acres
nbhd 0050
own1 WESTERN POCAHONTAS PROPERTIES
own2 LIMITED PARTNERSHIP
careof
owneraddr 5260 IRWIN RD
situsaddr OFF RT 93
cityname HUNTINGTON
statecode WV
legal1 349.13 AC C-20 FXO&G
Zoom to
KITZMILLER CAROLYN H
mapcard More info
parid 05 186000500060000
dmp 5-186-5.6
acres 7.00
nbhd 0050
own1 KITZMILLER CAROLYN H
own2
careof
owneraddr P O BOX 121
situsaddr 83 PEACOCK AVE
cityname GORMANIA
statecode WV
legal1 7 AC
Zoom to
KUHN DELORES M
mapcard More info
parid 05 186000500000000
dmp 5-186-5
acres 12.45
nbhd 0050
own1 KUHN DELORES M
own2
careof
owneraddr 60 ORVILLE KITZMILLER DR
situsaddr 60 ORVILLE KITZMILLER DR
cityname MT STORM
statecode WV
legal1 12.45 AC
Zoom to
KITZMILLER STEWART
mapcard More info
parid 05 186000500090000
dmp 5-186-5.9
acres 6.65
nbhd 0050
own1 KITZMILLER STEWART
own2
careof
owneraddr 1541 BISMARCK RD
situsaddr BISMARCK
cityname MT STORM
statecode WV
legal1 6.65 AC
Zoom to
KNOTTS PETER P & DIANA S
mapcard More info
parid 05 186000500110000
dmp 5-186-5.11
acres 6.48
nbhd 0050
own1 KNOTTS PETER P & DIANA S
own2
careof
owneraddr 1479 BISMARCK RD
situsaddr BISMARCK RD
cityname MT STORM
statecode WV
legal1 6.48 AC
Zoom to

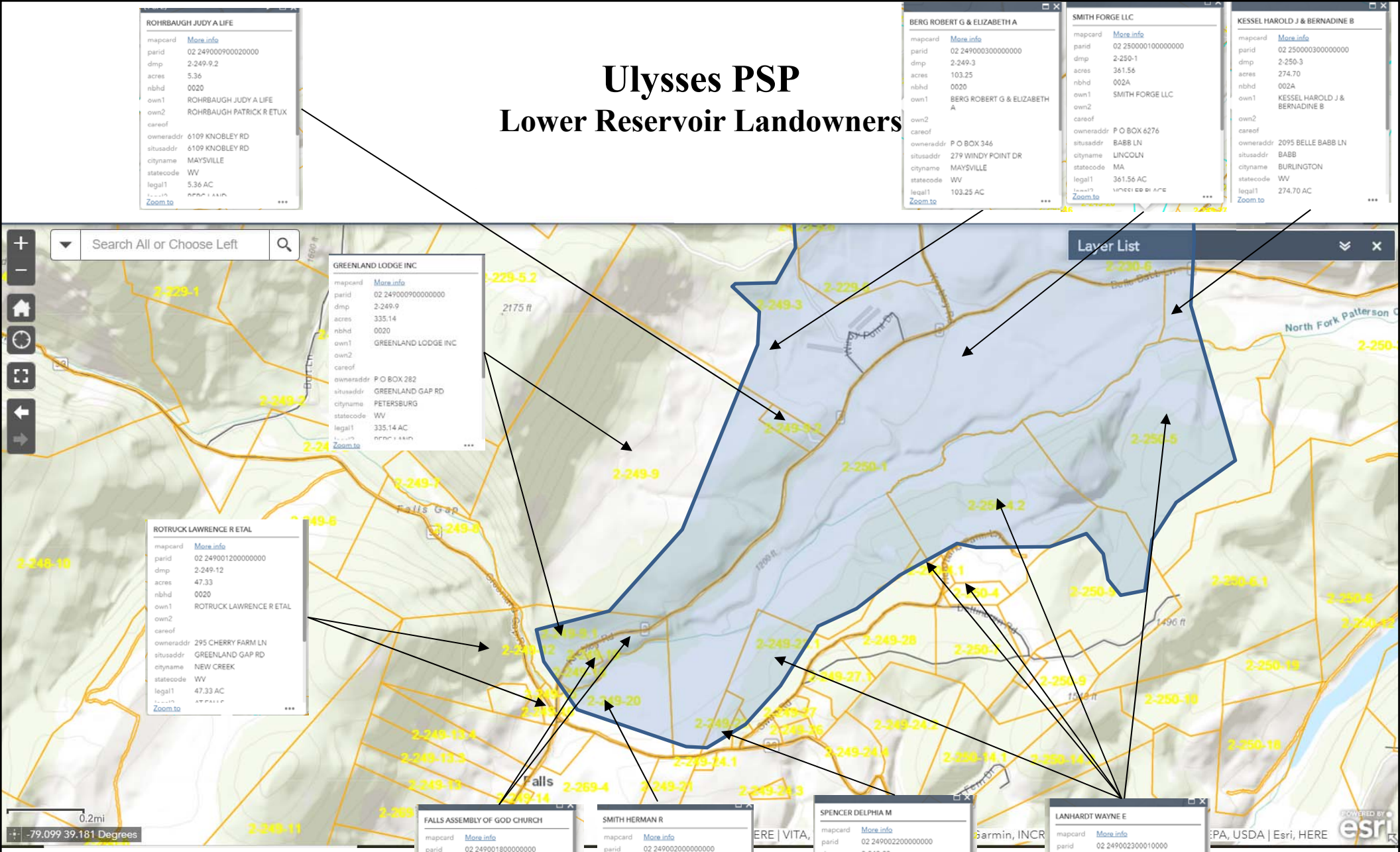
SK-5

Ulysses PSP
4 GW 100% RE Pump Storage Hydropower Project
Lower Reservoir

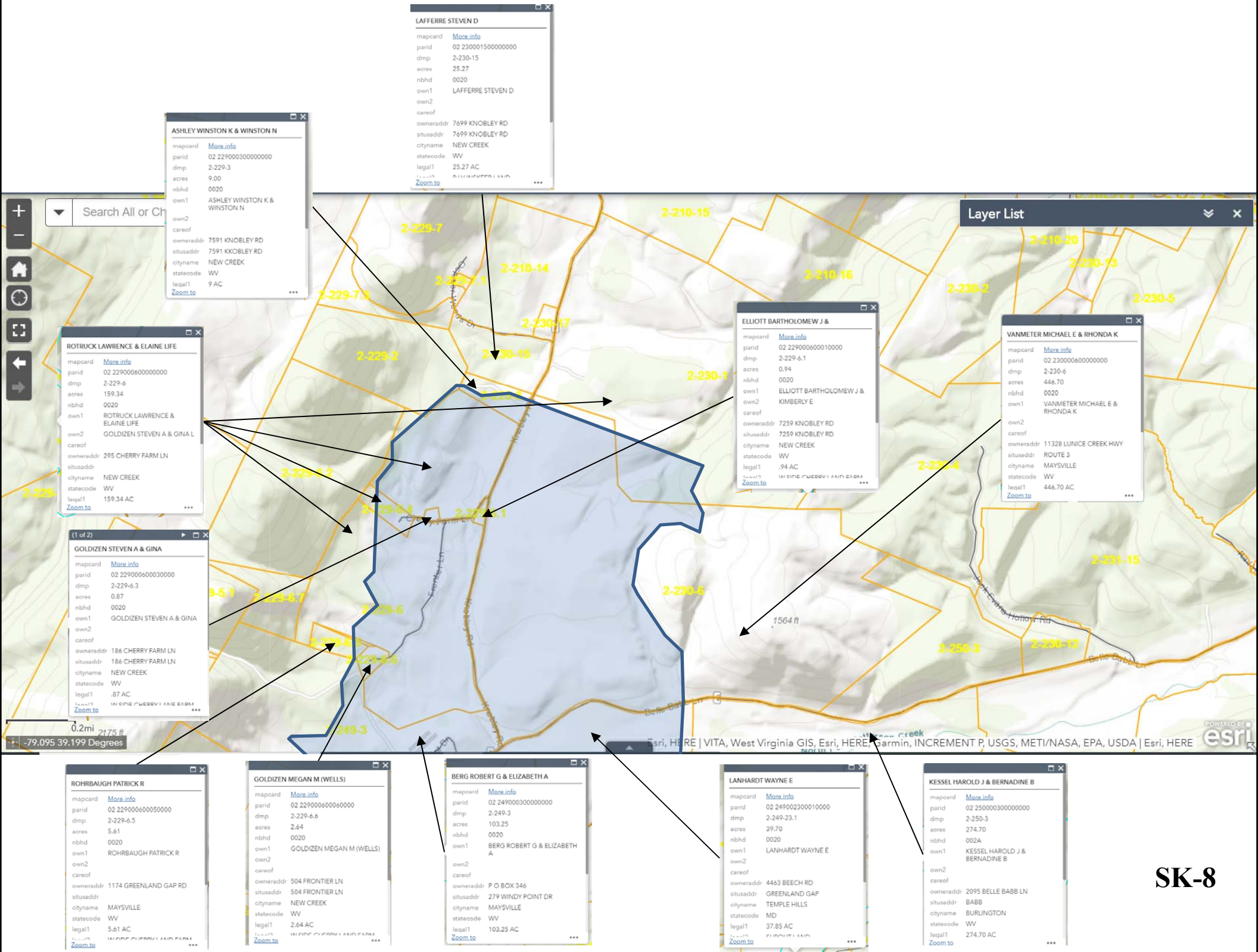


SK-6 Plan View: Lower Reservoir

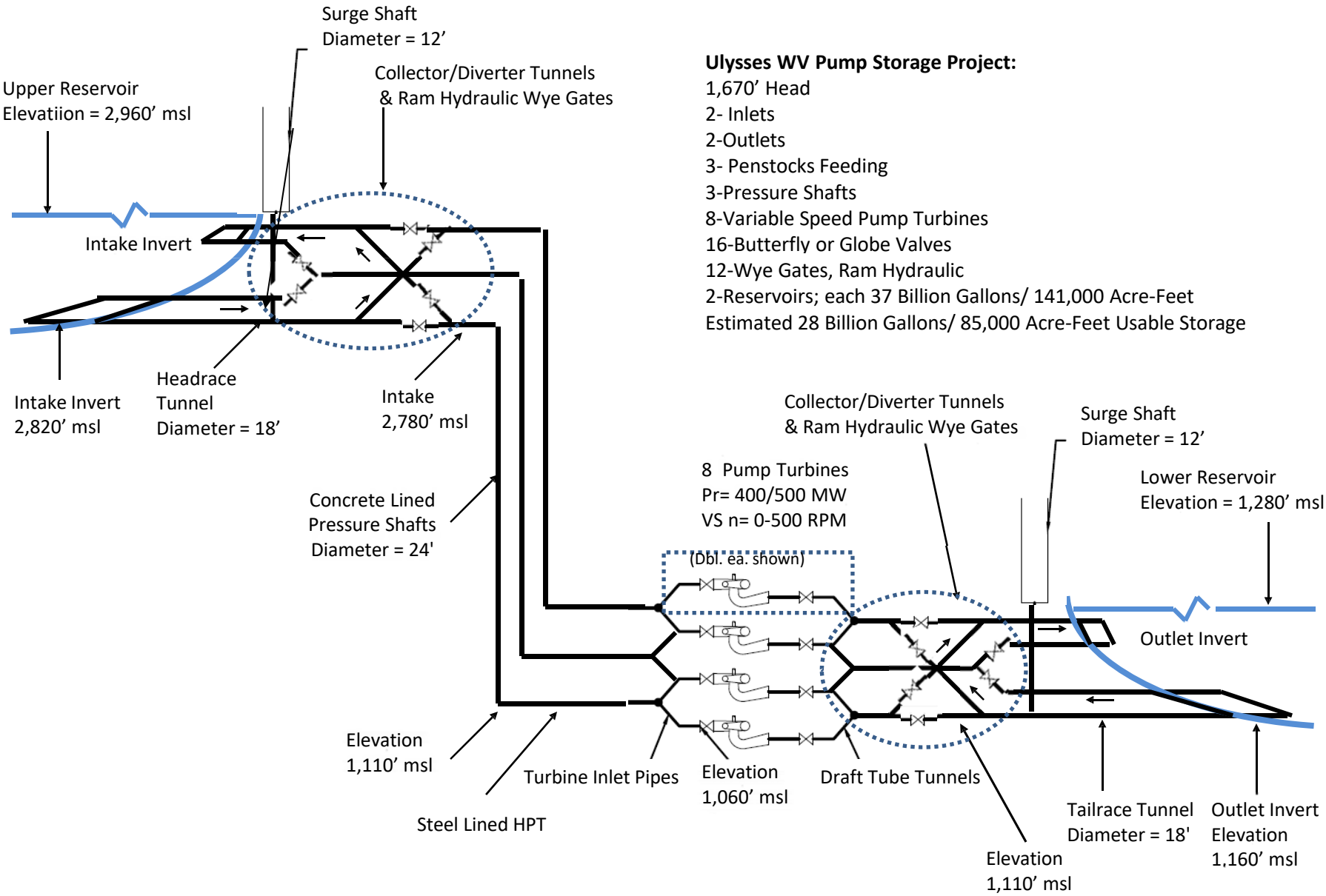
Ulysses PSP
Lower Reservoir Landowners



SK-7


LAFFERRE STEVEN D
mapcard More info
parid 02 230001500000000
dmp 2-230-15
acres 25.27
nbhd 0020
own1 LAFFERRE STEVEN D
own2
careof
owneraddr 7699 KNOBLEY RD
situsaddr 7699 KNOBLEY RD
cityname NEW CREEK
statecode WV
legal1 25.27 AC
Zoom to
ASHLEY WINSTON K & WINSTON N
mapcard More info
parid 02 229000300000000
dmp 2-229-3
acres 9.00
nbhd 0020
own1 ASHLEY WINSTON K & WINSTON N
own2
careof
owneraddr 7591 KNOBLEY RD
situsaddr 7591 KKOBLEY RD
cityname NEW CREEK
statecode WV
legal1 9 AC
Zoom to
Search All or Ch
Layer List
ROTRUCK LAWRENCE & ELAINE LIFE
mapcard More info
parid 02 229000600000000
dmp 2-229-6
acres 159.34
nbhd 0020
own1 ROTRUCK LAWRENCE & ELAINE LIFE
own2 GOLDIZEN STEVEN A & GINA L
careof
owneraddr 295 CHERRY FARM LN
situsaddr
cityname NEW CREEK
statecode WV
legal1 159.34 AC
Zoom to
ELLIOTT BARTHOLOMEW J &
mapcard More info
parid 02 229000600010000
dmp 2-229-6.1
acres 0.94
nbhd 0020
own1 ELLIOTT BARTHOLOMEW J &
own2 KIMBERLY E
careof
owneraddr 7259 KNOBLEY RD
situsaddr 7259 KNOBLEY RD
cityname NEW CREEK
statecode WV
legal1 .94 AC
Zoom to
VANMETER MICHAEL E & RHONDA K
mapcard More info
parid 02 230000600000000
dmp 2-230-6
acres 446.70
nbhd 0020
own1 VANMETER MICHAEL E & RHONDA K
own2
careof
owneraddr 11328 LUNICE CREEK HWY
situsaddr ROUTE 3
cityname MAYSVILLE
statecode WV
legal1 446.70 AC
Zoom to
(1 of 2)
GOLDIZEN STEVEN A & GINA
mapcard More info
parid 02 229000600030000
dmp 2-229-6.3
acres 0.87
nbhd 0020
own1 GOLDIZEN STEVEN A & GINA
own2
careof
owneraddr 186 CHERRY FARM LN
situsaddr 186 CHERRY FARM LN
cityname NEW CREEK
statecode WV
legal1 .87 AC
Zoom to
0.2mi 2175 ft
-79.095 39.199 Degrees
1564 ft
Esri, HERE | VITA, West Virginia GIS, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA | Esri, HERE
ROHRBAUGH PATRICK R
mapcard More info
parid 02 229000600050000
dmp 2-229-6.5
acres 5.61
nbhd 0020
own1 ROHRBAUGH PATRICK R
own2
careof
owneraddr 1174 GREENLAND GAP RD
situsaddr
cityname MAYSVILLE
statecode WV
legal1 5.61 AC
Zoom to
GOLDIZEN MEGAN M (WELLS)
mapcard More info
parid 02 229000600060000
dmp 2-229-6.6
acres 2.64
nbhd 0020
own1 GOLDIZEN MEGAN M (WELLS)
own2
careof
owneraddr 504 FRONTIER LN
situsaddr 504 FRONTIER LN
cityname NEW CREEK
statecode WV
legal1 2.64 AC
Zoom to
BERG ROBERT G & ELIZABETH A
mapcard More info
parid 02 249000300000000
dmp 2-249-3
acres 103.25
nbhd 0020
own1 BERG ROBERT G & ELIZABETH A
own2
careof
owneraddr P O BOX 346
situsaddr 279 WINDY POINT DR
cityname MAYSVILLE
statecode WV
legal1 103.25 AC
Zoom to
LANHARDT WAYNE E
mapcard More info
parid 02 249002300010000
dmp 2-249-23.1
acres 39.70
nbhd 0020
own1 LANHARDT WAYNE E
own2
careof
owneraddr 4463 BEECH RD
situsaddr GREENLAND GAP
cityname TEMPLE HILLS
statecode MD
legal1 37.85 AC
Zoom to
KESSEL HAROLD J & BERNADINE B
mapcard More info
parid 02 250000300000000
dmp 2-250-3
acres 274.70
nbhd 002A
own1 KESSEL HAROLD J & BERNADINE B
own2
careof
owneraddr 2095 BELLE BABB LN
situsaddr BABB
cityname BURLINGTON
statecode WV
legal1 274.70 AC
Zoom to

SK-8



Ulysses WV Pump Storage Project:
1,670’ Head
2- Inlets
2-Outlets
3- Penstocks Feeding
3-Pressure Shafts
8-Variable Speed Pump Turbines
16-Butterfly or Globe Valves
12-Wye Gates, Ram Hydraulic
2-Reservoirs; each 37 Billion Gallons/ 141,000 Acre-Feet
Estimated 28 Billion Gallons/ 85,000 Acre-Feet Usable Storage

SK-9 Ulysses PSP: Schematic