

**From:** Ryndock, Jason  
**To:** Shearer, Natalie  
**Cc:** charles.rolston@shell.com; Robert.Wooten@shell.com; Walker, Brandon  
**Subject:** RE: Falcon Ethane Pipeline Update  
**Date:** Tuesday, August 15, 2017 2:27:44 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)  
[image005.jpg](#)  
[image006.png](#)  
[22470\\_Altsherry\\_NI\\_perSurvey\\_jar.pdf](#)

Hi Natalie,

Thank you for your excellent report and for documenting/updating the harbinger-of-spring and purple rocket populations. Please find attached a PNDI clearance letter. If you have any questions or concerns, please let me know.

Thanks,

**Jason Ryndock** | Ecological Information Specialist  
PA Department of Conservation & Natural Resources  
Bureau of Forestry | Natural Heritage Section  
400 Market Street | Harrisburg, PA 17105  
Phone: 717.705.2822 | Fax: 717.772.0271  
E-mail: [c-jryndock@pa.gov](mailto:c-jryndock@pa.gov)

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**From:** Shearer, Natalie [<mailto:natalie.shearer@aecom.com>]  
**Sent:** Tuesday, August 08, 2017 3:47 PM  
**To:** Ryndock, Jason <[c-jryndock@pa.gov](mailto:c-jryndock@pa.gov)>  
**Cc:** charles.rolston@shell.com; Robert.Wooten@shell.com; Walker, Brandon <[brandon.walker@aecom.com](mailto:brandon.walker@aecom.com)>  
**Subject:** RE: Falcon Ethane Pipeline Update

Hi Jason. I just wanted to give you a head's up that the botanical report went out today so you should be receiving it in the next day or two. To make it official, I have attached the final footprint for the line so that you have it for your files since I believe the last shapefiles I sent were just of the reroutes individually.

Thanks and have a good evening.

Natalie

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**From:** Ryndock, Jason [<mailto:c-jryndock@pa.gov>]  
**Sent:** Friday, March 31, 2017 2:16 PM  
**To:** Shearer, Natalie  
**Subject:** RE: Falcon Ethane Pipeline Update - DCNR clearance

Thanks Natalie!

I recommend that you survey all three reroute areas (Durkin looks less promising, but good to double check while you are there). Also, *Iodanthus pinnatifidus* has been documented in the creek floodplain at the bore location (please see attached map). If you can manage, it would be great to get an update on the population when it is visible later in the year, even if this area will be avoided by directional bore. It was last visited in 2013. Below is some info (couldn't get the biotics report today, system is down).

**EO Data** 2013-06-18: 5 plants. See SFID# 43085 Visits (F13W0027).

P01FOX01: 2001, EXISTANCE OF SPECIES IN THIS AREA CONFIRMED, OCCURRING AS CLOSE AS 6M FROM THE ROADWAY. F99GRU11: 1999 JUN 6, ABOUT 50 PLANTS OBSERVED IN THE AREA N OF THE PIPELINE ROW. MORE PLANTS ARE WIDELY SCATTERED SOUTHWARD. F92ISA25 (CM3952, S92ISACM): 1992 JUN 15: EO FOUND ON FLAT BOTTOM LAND, PARTIAL TO FILTERED LIGHT, MOIST SOILS. ONE HISTORIC COLLECTION: 1913 JUN 12, CM048937, S13BRICM.

**Directions** 2013-06-18: Park on township land on north side of road, just east on the bridge. Walk in along dirt road on floodplain (F13W0027).

RACCOON CREEK | FROM BOCKTOWN, PA TAKE ST RT 151 W TILL YOU REACH BRIDGE OVER RACCOON CREEK, CROSS BRIDGE & PARK. EO IS IN THE BACK OF THE FLOODPLAIN FOREST JUST S OF BRIDGE AND ALSO 0.5 MI S OF BRIDGE.

**Description** 2013-06-18: The canopy is dominated by silver maple (*Acer saccharinum*), elm (*Ulmus* sp.), and ash (*Fraxinus* sp.) Shrubs are scattered, and there is a dense herbaceous layer (F13W0027).

FLOODPLAIN IS MOSTLY IMMATURE AND IS FORESTED WITH SYCAMORE, MAPLE & CHERRY MIXED WITH OTHER DECIDUOUS HARDWOODS. SOME STEEP SHALEY HILLSIDES BORDER THE FLOODPLAIN.

**Mgmt Comments** 2013-06-18: invasive species control; create canopy gaps? (F13W0027).

INVASIVE SPP. INCLUDE POLYGONUM CUSPIDATUM, ALLIARI, TUSSILAGO, HESPERIS AND GLECHOMA. FIRST 2 SPP. MOST PROBLEMATIC. RT 151 BRIDGE REPLACEMENT PROJECT SHOULD AVOID THE AREA S OF RT 151 AS COMPLETELY AS POSSIBLE, NOT ALLOWING MATERIALS, EQUIPMENT OR SOIL ADDITIONS IN THE AREA. AN EROSION AND SEDIMENTATION PLAN SHOULD BE FOLLOWED SCRUPULOUSLY.

**EO Rank Comments** 2013-06-18: "C" very small population, encroaching Japanese knotweed monoculture (F13W0027).

NOT A HUGE POP., CLOSE TO THE RD, INVASIVES ARE A PROBLEM. REEVALUATE A FEW YRS AFTER BRIDGE REPLACEMENT.

**Survey Window** flowers May-June

**Habitat** moist alluvial woods and wooded slopes

Let me know if you have any questions!

**Jason Ryndock** | Ecological Information Specialist  
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**From:** Shearer, Natalie [<mailto:natalie.shearer@aecom.com>]  
**Sent:** Friday, March 31, 2017 11:58 AM  
**To:** Ryndock, Jason <[c-jryndock@pa.gov](mailto:c-jryndock@pa.gov)>  
**Subject:** RE: Falcon Ethane Pipeline Update - DCNR clearance

Hi Jason, I tried sending it as a zip file and it bounced back. Then I remembered you guys can't get zip files in emails. Here are the shapefiles as requested. Please let me know if you have any questions.

Thanks,  
Natalie

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**From:** Shearer, Natalie  
**Sent:** Friday, March 31, 2017 11:53 AM  
**To:** 'Ryndock, Jason'  
**Cc:** Walker, Brandon; [Kyle.Webster@shell.com](mailto:Kyle.Webster@shell.com); [charles.rolston@shell.com](mailto:charles.rolston@shell.com)  
**Subject:** RE: Falcon Ethane Pipeline Update - DCNR clearance

Good afternoon Jason. Here are the shapefiles as requested.

Thank you,  
Natalie

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**From:** Ryndock, Jason [<mailto:c-jryndock@pa.gov>]  
**Sent:** Friday, March 31, 2017 9:33 AM  
**To:** Shearer, Natalie  
**Cc:** Walker, Brandon  
**Subject:** RE: Falcon Ethane Pipeline Update - DCNR clearance

Hi Natalie,

Thank you for the update. Could you send me shapefiles of these areas?

Thanks!

**Jason Ryndock** | Ecological Information Specialist  
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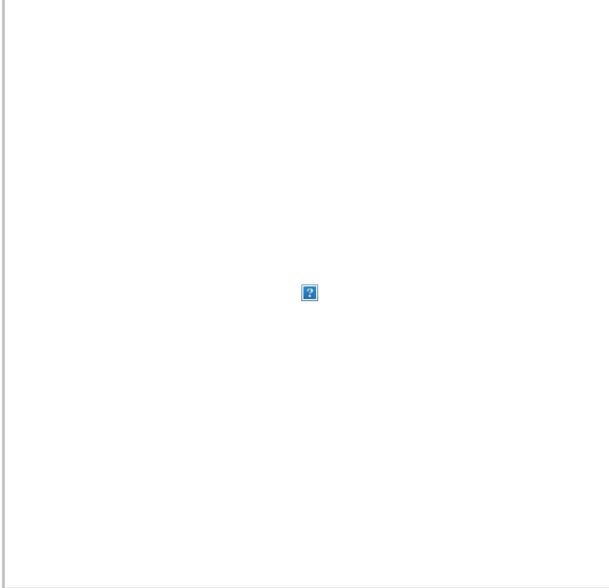
**From:** Shearer, Natalie [<mailto:natalie.shearer@aecom.com>]  
**Sent:** Thursday, March 30, 2017 1:27 PM  
**To:** Ryndock, Jason <[c-jryndock@pa.gov](mailto:c-jryndock@pa.gov)>  
**Cc:** Walker, Brandon <[brandon.walker@aecom.com](mailto:brandon.walker@aecom.com)>  
**Subject:** RE: Falcon Ethane Pipeline Update - DCNR clearance

Good afternoon Jason.

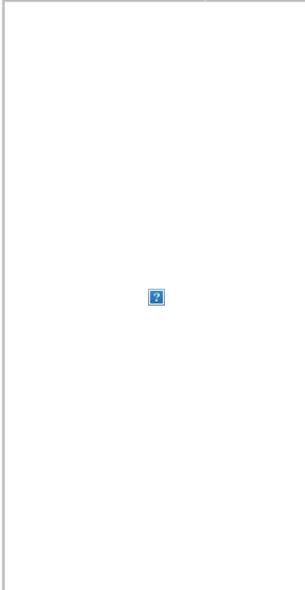
We have three areas where we are going to have to shift due to landowners. I have screen shots of them below. I can send maps and shapefiles as well but I wanted to get this to you sooner than later since I would have to get out next week if I need to survey for the *Erigenia*, *Erythronium*, or *Trillium*. The yellow hatched area on the screen shots are the areas that we have surveyed already.

Thank you,  
Natalie

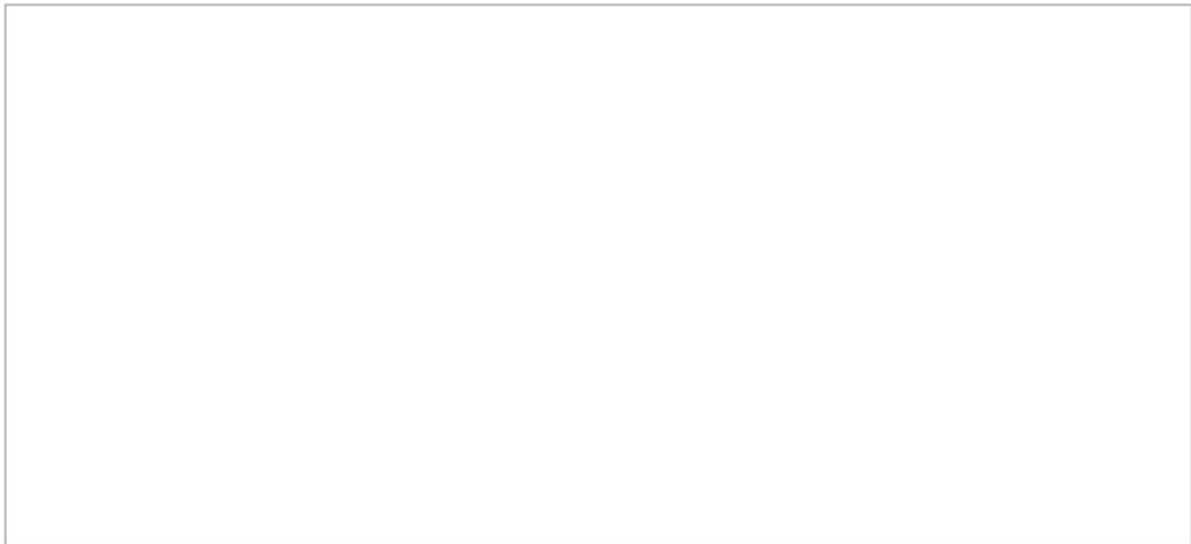
1. Shift at Raccoon Creek. The *Erigena* is located in this floodplain. The bore has been shifted to almost miss the floodplain altogether (it is the greyish line with the mile post marker on it). The forest south of PA-151 is that dry regenerating forest that was there in the original survey area.



2. The LOD hasn't been set here yet, but it will follow the blue line called Durkin Reroute 2-7-17.



3. The LOD also hasn't been set here yet but will follow the blue line called Hunter Reroute 3-7-17. It is approximately 1300 feet from the blue line to the originally surveyed area at the furthest point.



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**From:** Ryndock, Jason [<mailto:c-jryndock@pa.gov>]  
**Sent:** Wednesday, March 08, 2017 3:12 PM  
**To:** Shearer, Natalie  
**Subject:** Falcon Ethane Pipeline Update - DCNR clearance

Hi Natalie,

Hope this email find you well. Attached is an updated PNDI clearance letter for the Falcon Ethane Pipeline. If you have any questions or concerns, just let me know.

Thanks!

**Jason Ryndock** | Ecological Information Specialist  
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