

Reference #	13991439
Status	Complete
Login Username	matt.safford@ncagr.gov
Login Email	matt.safford@ncagr.gov
A1. Applicant's Organization:	EXAMPLE
First Name	Matt
Last Name	Safford
Street Address	316 W Jones St
City	Raleigh
State	North Carolina
Zip Code	27603
Phone Number	(919) 707-3784
Email Address	matt.safford@ncagr.gov
Do you have Stream Segment needing Vegetative Debris Removal Only?	Yes
How many Stream Segment need Vegetative Debris Removal Only	1
Stream/Drainage Channel Name-Vegetative Debris Removal Only	Jones Creek Section 1
Linear Feet of Channel Affected	2,000
Description of Damage and Planned Repair	Downed trees and woody debris have accumulated in the stream, including 10 large debris piles scattered along 2,000 linear feet of channel. A large number of individual fallen trees and limbs, and several undercut trees leaning over the stream from the bank, are scattered along the stream between the debris piles/log jams. This debris in the channel is backing up water and contributing to flooding of surrounding properties during high flow events. Debris is also redirecting the current and causing significant erosion on adjacent properties, including several erosion spots that are within 15 feet of roads and parking lots. Debris will be removed by hand, and hauled onto the floodplain to be cabled with rope. Removal of debris will hopefully reduce flooding issues and prevent additional new erosion.
Estimated Cost to Repair	40000.00
Estimate the number of structures (homes, commercial buildings, farm structures) that will benefit from activities	5
Estimate the number of utility crossing that will benefit from planned activities	0
Estimate the number of road crossing that will benefit from planned activities	1
Estimate the number of farms that will benefit from planned activities	1
Estimate the number of acres of agriculture land that will benefit from planned activities	4
Start/Stop GPS (Use 4 decimal in GPS Coordinates)	35.7830, -78.6446 / 35.7850, -78.6411
Is this a 303d (see map at https://ncdenr.maps.arcgis.com/apps/dashboards/93a11bf60e00438a8823a45da0c38566)	No

Has this segment cleaned out or repaired with state assistance after Hurricane Matthew, Florence, Michael, Dorian, Isaias, Eta or Fred	No
How do you expect to manage debris removed from the stream channel (Check all that apply)?	Cabling or strapping debris in a secured manner away from the immediate stream (min of 30' from top of stream bank)
Describe the method(s) used to estimate the project costs (e.g., cost per linear foot, cost per tree).	Cost per linear foot
If any of the projects listed above include beaver dam removal, please describe the actions you plan to address beaver removal.	If beavers are present, county beaver trapper will trap site before debris removal begins. Any beaver dams will be breached and dismantled, with wood removed from stream and cabled in floodplain.
Do any of the stream segments proposed for repair include any state or federally listed threatened or endangered species potentially adversely impacted by the proposed action?	No
What is the total estimate of Funds needed to address the repair needs for Vegetative Debris Removal Only?	40000.00
Do you have Stream Segment needing Vegetative Debris Removal and Removal of In-Stream Sediment?	Yes
How many Stream Segment need Vegetative Debris Removal and Removal of In-Stream Sediment?	1
Stream/Drainage Channel Name-Vegetative Debris Removal and Removal of In-Stream Sediment	Jones Creek Section 2
Linear Feet of Channel Affected	200
Description of Damage and Planned Repair	Large amounts of sediment have accumulated in the channel immediately upstream of the Division Street crossing. This sediment is reducing the capacity of the channel and clogging much of the culvert under Division Street. This sediment reduces flow through the culvert, leading to increased flooding, including several instances in the past 2 years of Jones Creek overtopping Division Street and making the road impassible during storms. Equipment parked on the bank will be used to reach into the stream and excavate the excess sediment to unclog the culvert and improve stream flow at the road crossing. Sediment will be hauled off site and disposed of.
Estimated Cost to Repair	10000.00
Estimate the number of structures (homes, commercial buildings, farm structures) that will benefit from activities	0
Estimate the number of utility crossing that will benefit from planned activities	1
Estimate the number of road crossing that will benefit from planned activities	0
Estimate the number of farms that will benefit from planned activities	0
Estimate the number of acres of agriculture land that will benefit from planned activities	0
Start/Stop GPS (Use 4 decimal in GPS Coordinates)	35.7830, -78.6446 / 35.7850, -78.6411
Has this segment cleaned out or repaired with state assistance after Hurricane Matthew, Florence, Michael, Dorian, Isaias, Eta or Fred	No
How do you expect to manage debris removed from the stream channel (Check all that apply)?	Remove from the 100-year floodplain
Is this a 303d (see map at https://ncdenr.maps.arcgis.com/apps/dashboards/93a11bf60e00438a8823a45da0c38566)	No

Describe the method(s) used to estimate the project costs (e.g., cost per linear foot, cost per tree).	Cost per linear foot.
Do any of the stream segments proposed for repair include any state or federally listed threatened or endangered species potentially adversely impacted by the proposed action?	No
What is the total estimate of Funds needed to address the repair needs for Vegetative Debris Removal and Sediment removal?	10000.00
Do you have Stream Segment needing Vegetative Debris Removal and Streambank Stabilization?	Yes
How many Stream Segment need Vegetative Debris Removal and Streambank Stabilization	1
Stream/Drainage Channel Name-Vegetative Debris Removal and Streambank Stabilization?	Jones Creek Section 3
Linear Feet of Channel Affected	300
Description of Damage and Planned Repair	A section of streambank on Jones Creek has collapsed due to heavy erosion in recent storms. This section is adjacent to 2 buildings (30' from area of erosion) and a section of Division Street (15' from edge of stream erosion) that parallels the Creek, and ongoing erosion is moving the creek towards the houses and road. Property owners and city officials are concerned that ongoing erosion will damage buildings and road. The hired contractor will stabilize the streambank by grading the bank at a 3:1 ratio and re-seeding and live staking the streambank to stabilize the soil. All work will be done from the bank to minimize damage to the stream.
Estimated Cost to Repair	30000.00
Estimate the number of structures (homes, commercial buildings, farm structures) that will benefit from activities	2
Estimate the number of utility crossing that will benefit from planned activities	1
Estimate the number of road crossing that will benefit from planned activities	0
Estimate the number of farms that will benefit from planned activities	0
Estimate the number of acres of agriculture land that will benefit from planned activities	0
Start/Stop GPS (Use 4 decimal in GPS Coordinates)	35.7830, -78.6446 / 35.7850, -78.6411
Is this a 303d (see map at https://ncdenr.maps.arcgis.com/apps/dashboards/93a11bf60e00438a8823a45da0c38566)	No
Has this segment cleaned out or repaired with state assistance after Hurricane Matthew, Florence, Michael, Dorian, Isaias, Eta or Fred	Yes
How do you expect to manage debris removed from the stream channel (Check all that apply)?	Remove from the 100-year floodplain
Describe the method(s) used to estimate the project costs (e.g., cost per linear foot, cost per tree).	Cost per linear foot.
If any of the projects listed above include beaver dam removal, please describe the actions you plan to address beaver removal.	NA
Do any of the stream segments proposed for repair include any state or federally listed threatened or endangered species potentially adversely impacted by the proposed action?	No
What is the total estimate of Funds needed to address the repair needs for Vegetative Debris Removal and Streambank Stabilization?	30000.00

Do you have Stream Segment needing Stream Restoration (and any necessary Vegetative Debris Removal)?	Yes
How many Stream Segment need Stream Restoration (and any necessary Vegetative Debris Removal)	1
Stream/Drainage Channel Name- Stream Restoration (and any necessary Vegetative Debris Removal)	Jones Creek Section 4
Linear Feet of Channel Affected	200
Description of Damage and Planned Repair	Section of Jones Creek has become very channelized, with eroded banks and no vegetation. During floods, a large amount of sediment enters the stream due to eroding banks and a lack of riparian vegetation. The straightened channel increases flow velocity, exacerbating erosion and sedimentation concerns during high flow events, and destroying aquatic habitat. The steep channel prevents water from dispersing in the floodplain, causing increased flooding downstream. Channelization and erosion is encroaching on a downstream bridge and several downstream structures. Contractor will complete restoration work to reduce erosion issues and enhance bank stability using rock vanes, step-pools, and other in-stream techniques. Native vegetation establishment would help maintain stream integrity in the future.
Estimated Cost to Repair	30000.00
Estimate the number of structures (homes, commercial buildings, farm structures) that will benefit from activities	2
Estimate the number of utility crossing that will benefit from planned activities	0
Estimate the number of road crossing that will benefit from planned activities	1
Estimate the number of farms that will benefit from planned activities	0
Estimate the number of acres of agriculture land that will benefit from planned activities	0
Start/Stop GPS (Use 4 decimal in GPS Coordinates)	35.7830, -78.6446 / 35.7850, -78.6411
Is this a 303d (see map at https://ncdenr.maps.arcgis.com/apps/dashboards/93a11bf60e00438a8823a45da0c38566)	No
Has this segment cleaned out or repaired with state assistance after Hurricane Matthew, Florence, Michael, Dorian, Isaias, Eta or Fred	No
How do you expect to manage debris removed from the stream channel (Check all that apply)?	Remove from the 100-year floodplain
Describe the method(s) used to estimate the project costs (e.g., cost per linear foot, cost per tree).	Cost per linear foot
Do any of the stream segments proposed for repair include any state or federally listed threatened or endangered species potentially adversely impacted by the proposed action?	No
What is the total estimate of Funds needed to address the repair needs for Stream Restoration (and any necessary Vegetative Debris Removal)?	30000.00
Do you have Stream Segment needing other restoration activities not covered ?	Yes
How many Stream Segment need ther restoration activities not covered	1
Stream/Drainage Channel Name- other restoration activities not covered	Jones Creek Section 5
Linear Feet of Channel Affected	20

Description of Damage and Planned Repair	An undersized culvert on a farm road on Jones Creek has exacerbated flooding issues. This culvert is currently a 36" diameter pipe that is insufficient for the size of the creek. Culvert is mostly filled with water during normal flow, and during floods the small pipe backs up water upstream. Pooling water is also causing erosion around the culvert itself and undermining the farm road. Upstream flooding is affecting 4 upstream structures and portions of a corn field. Planned work would replace the culvert with a 72" diameter pipe that would prevent the road crossing from causing upstream flooding. Riprap would be installed around the edge of the culvert to prevent future erosion of the culvert.
Estimated Cost to Repair	15000.00
Estimate the number of structures (homes, commercial buildings, farm structures) that will benefit from activities	4
Estimate the number of utility crossing that will benefit from planned activities	0
Estimate the number of road crossing that will benefit from planned activities	1
Estimate the number of farms that will benefit from planned activities	1
Estimate the number of acres of agriculture land that will benefit from planned activities	6
Start/Stop GPS (Use 4 decimal in GPS Coordinates)	35.7830, -78.6446 / 35.7850, -78.6411
Is this a 303d (see map at https://ncdenr.maps.arcgis.com/apps/dashboards/93a11bf60e00438a8823a45da0c38566)	Yes
Has this segment cleaned out or repaired with state assistance after Hurricane Matthew, Florence, Michael, Dorian, Isaias, Eta or Fred	No
How do you expect to manage debris removed from the stream channel (Check all that apply)?	Other, please specify (No debris to be removed)
Describe the method(s) used to estimate the project costs (e.g., cost per linear foot, cost per tree).	Cost per culvert
If any of the projects listed above include beaver dam removal, please describe the actions you plan to address beaver removal.	No beaver dams/activity present
Do any of the stream segments proposed for repair include any state or federally listed threatened or endangered species potentially adversely impacted by the proposed action?	No
What is the total estimate of Funds needed to address the repair needs for other restoration activities not covered?	15000.00
Do you have PL-566 you are applying for?	Yes
How many PL-566 you are applying for	1
PL-566 Watershed Project Name	Side Creek Dam 1
Watershed Project Structure Number	SCD1
Description of Needed and Planned Repair	Side Creek Dam 1 flood control structure requires repairs to the trash rack on the riser. Dam was constructed in 1971 and has not had significant repairs since then. In the most recent inspection, trash rack was severely rusted and had broken free of the riser, allowing logs and floating debris to enter the intake structure. If not corrected, this debris could clog the structure, preventing normal water flow out of the dam and potential overtopping of the dam in future floods. Planned repairs would completely replace the old track rack with a new one to prevent debris from clogging outflow pipe. An engineering firm would

be hired to identify the most appropriate replacement trash rack design. Contractor would also remove any floating debris currently clogging the pipes.

Estimated Cost to Repair	25000.00
Engineering Assessment Demonstrates Repair Needed	Yes
Most Recent Inspection Date	02/02/2023
What is the Hazard Classification	High
National Inventory of Dams (NID)	123456789
Is there a Emergency Action Plan (EAP)?	Yes
Date of last EAP	01/01/2020
How many structures, bridges, roads, utilities could be affected if repairs are not completed	15
Is there an alternate/modified repair plan you could complete on this structure if you do not receive the full amount requested (ex: by reducing scope of work to only repair some of the issues identified on the structure, providing match funding to cover remainder of costs)	If not awarded enough funds to completely replace the trash rack as planned, then alternate plan would be to use funds to rent a pump to reduce water level so staff can reattach the existing trash rack.
Have you applied for Watershed Rehabilitation Program (WRP) assistance from USDA-NRCS for this segment	Yes
Has NRCS conducted a site assessment to see if the site qualifies for WRP assistance	Yes
Does the segment qualify for WRP assistance	No
What is the total estimate of Funds needed to address the repairs for the PL-566's you have applied for?	25000.00
D1. What is the total estimate of funds needed to address the repair needs for the segments in Streamflow Rehabilitation and PL-566 submitted in this application?	150000.00
D2. What is your highest priority site?	Side Creek Dam 1
D3. Describe how projects were prioritized while identifying your sites.	Projects were prioritized based on number of structures/roads/farms benefiting from the work. Additional considerations included total cost of each planned project, and ease of access. One additional site was considered, but not added to the application because the landowner has refused access to work on their property.
D4. Match is not required for this program, but additional funding commitments will be considered as an indication of the viability and potential success for proposed activities. For the segments listed in Sections for Streamflow Rehabilitation and PL-566, please list the corresponding segment Names for each segment that have matching funds	
A	
Where is additional funding coming from (NRCS, County...)	County Government
Is this funding secured	Yes
Description (Ex. in-kind engineering/administration, USDA-BMAP, outside grant)	In-kind engineering & administration costs.
Amount	\$10,000
B	
C	
D	
E	

F

G

E1. Map showing each stream segment or watershed structure proposed for repair work and indicating location of known blockages, (including beaver dams).

[Example_Map.pdf \(14.92 MB\)](#)

E4. Photo of stream segments/watershed structures needing debris removal and other repair work.

[IMG_0091.JPG \(3.86 MB\)](#)



Applicant:

Type name:

Matt Safford

Date:

11/28/2023

Last Update

2023-11-28 13:53:39

Start Time

2023-11-28 08:45:50

Finish Time

2023-11-28 13:53:39

IP

199.90.92.4

Browser

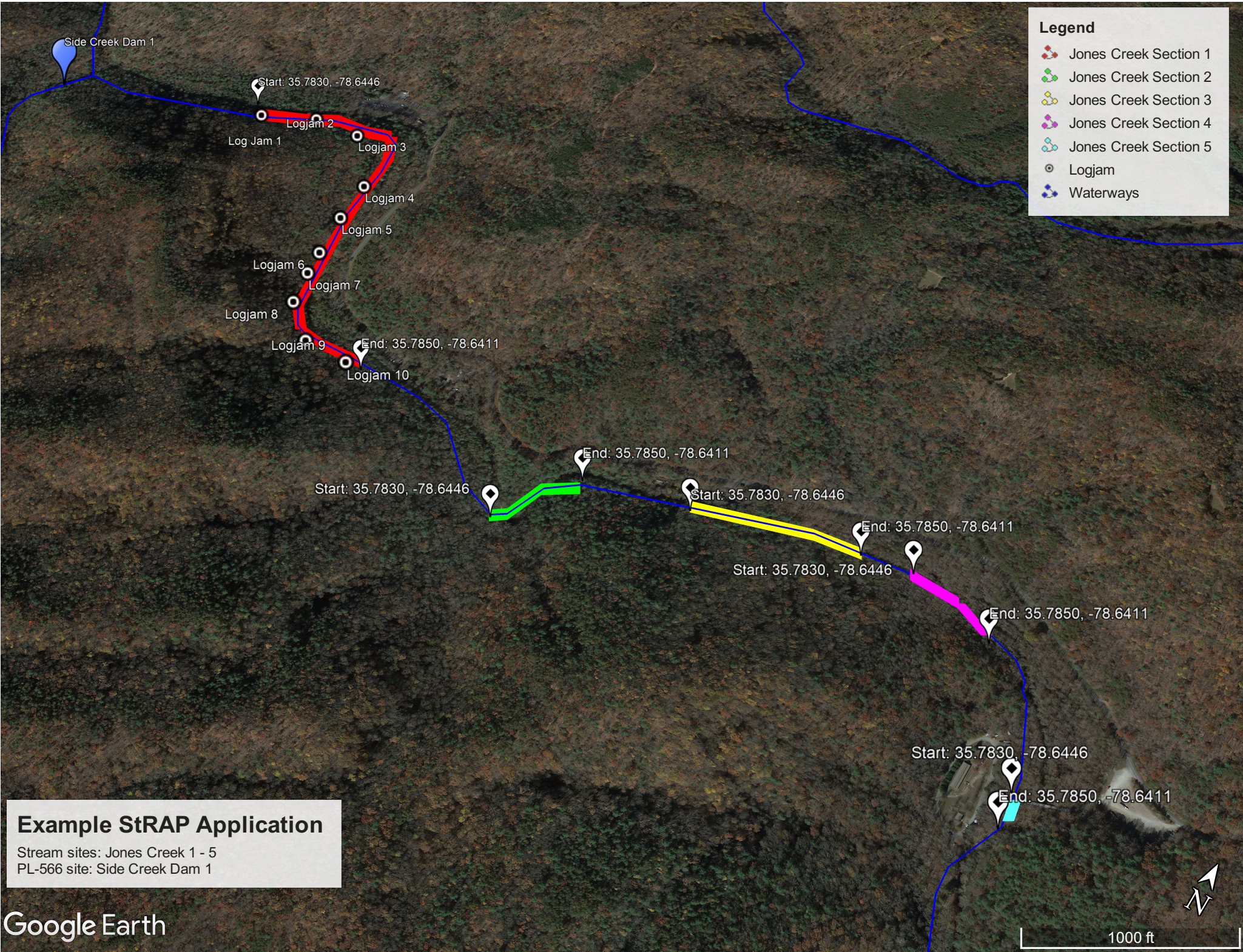
Chrome

Device

Desktop

Referrer

https://fs3.formsite.com/ncdswc/6eakafolr5/signup



Legend

- Jones Creek Section 1
- Jones Creek Section 2
- Jones Creek Section 3
- Jones Creek Section 4
- Jones Creek Section 5
- Logjam
- Waterways

Example StRAP Application
Stream sites: Jones Creek 1 - 5
PL-566 site: Side Creek Dam 1

