Location	
Vegetation Transition Indicator Location	X
Sediment Transition Indicator Location	b
Instream bedforms and other bedload transport evidence	Present
Instream bedforms Indicator Location	b
Other instream bedforms and bedload transport evidence	deposition bedload indicators (e.g., poofs, riffles, steps, etc.)
Deposition Bedload Indicator Location	b
Secondary channels	
Sediment Indicators	
Soil development	Present
Soil Development Indicator Location	X
Changes in character of soil	Present
Changes in character of soil Indicator Location	X
Mudcracks	
Changes in particle-sized distribution	Present
Changes in particle-sized distribution Indicator Location	X
Other changes in particle- sized distribution	
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	X
General Vegetation Change	vegetation absent to:, woody shrubs to:
vegetation absent to:	woody shrubs
woody shrubs to:	
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	Present
Exposed Roots Indicator Location	X
Ancillary Indicators	

Ancillary Indicators	Wracking/presence of organic litter:, Presence of large wood:
Wracking Indicator Location	b
Presence of Large Wood Indicator Location	b
Other observed indicators?	No
Step 4: Additional Informatio	n
ls additional information needed to support this determination?	No
Step 5: Rationale	
Describe rationale for location of OHWM	The OHWM occurs where undercut banks are developed, a vegetation transition occurs, and where stream substrate and sorting forms. These indicators were the most consistent of those observed and persisted throughout the entire reach of the delineated stream.
Additional observations or notes	
Photos	
Photo log attached?	Yes
Photos	

Upstream photograph.

Stream substrate, looking downstream.



Undercut bank.



Transition in substrate type and point bar.



Undercut bank with wracking of organic material.



Undercut bank, with stream substrate



Point bar with sorted stream substrate.

Project	21028 Hoffman Falls Wetland Delineation
ID	352398
Survey Date	06/01/2023
User	Rachael Foote
General Information	
Project ID #	93-ST002
Site Name	Hoffman Falls
Date	06/01/2023
Time	11:35 AM
Location	
Latitude	42.94537117
Longitude	-75.754421
Investigator(s)	BA GH RS
Step 1: Site overview from re	mote and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	Adjacent land use is residential property and scrub-shrub wetland complex. Stream flows into DEC mapped class C(T) stream. Moderate baseflow was observed during the delineation.
Step 2: Site conditions during	g field assessment
Describe Site Condition	This stream crosses a driveway via culvert.
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	X
Other break in slope indicators	undercut bank
Undercut Bank Indicator Location	X
Shelving	Present
Shelving Indicator Location	X
Other Shelving Indicators	man-made berms or levees
Man-made berms or levees	a
Indicator Location Channel bar	Present
Indicator Location	Present b

Unvegetated Indicator	b
Location	
lnstream bedforms and other bedload transport evidence	Present
Instream bedforms Indicator Location	b
Other instream bedforms and bedload transport evidence	deposition bedload indicators (e.g., poofs, riffles, steps, etc.)
Deposition Bedload Indicator Location	b
Secondary channels	
Sediment Indicators	
Soil development	
Changes in character of soil	Present
Changes in character of soil Indicator Location	b
Mudcracks	
Changes in particle-sized distribution	Present
Changes in particle-sized distribution Indicator Location	b
Other changes in particle- sized distribution	transition
transition from	Silt to gravel
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	X
General Vegetation Change	vegetation absent to:
vegetation absent to:	woody shrubs
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	
Ancillary Indicators	
Ancillary Indicators	Wracking/presence of organic litter:
Wracking Indicator Location	X
Other observed indicators?	No
Step 4: Additional Information	n
ls additional information needed to support this	No

determination?

Step 5: Rationale

Describe rationale for location of OHWM

The OHWM occurs where vegetation transitions from absent to woody shrubs, at the break in slope, and at the extent of wracking. These indicators were the most persistent of those observed throughout the entire reach of the delineated stream.

Additional observations or notes

Photos

Photo log attached?

Photos



Yes

Dense vegetation within stream channel.



Streambed and substrate with break in slope and transition in vegetation present.



Stream substrate, with some wracking visible.



Undercut bank with some wracking.



Photo of stream flowing within the PSS wetland complex.



Break in slope visible in upstream facing photograph.

- Rapid Ordinary High W	ater Mark (OHWM) 1.0		
Project	21028 Hoffman Falls Wetland Delineation		
ID	352399		
Survey Date	06/01/2023		
User	Rachael Foote		
General Information			
Project ID #	93-ST003A		
Site Name	Hoffman Falls		
Date	06/01/2023		
Time	03:51 PM		
Location			
Latitude	42.94406717		
Longitude	-75.75733133		
Datum	NAD83/2011		
Investigator(s)	BA GH RS		
Step 1: Site overview from rer	Step 1: Site overview from remote and online resources		
Check boxes for online	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic		
resources used to evaluate site	maps		
Other	Natural Resource Mapper		
Describe land use and flow conditions from online resources.	No recent precipitation within past 72+ hrs. Adjacent land use is a mix of active agriculture, residential property, and forested uplands. Moderate to low baseflow was observed during delineation.		
Step 2: Site conditions during	field assessment		
Describe Site Condition	This stream occurs within a man-made ditch and flows through multiple culverts.		
Step 3 Indicators			
Geomorphic Indicators			
Break in slope			
Shelving	Present		
Shelving Indicator Location	a		
Other Shelving Indicators	man-made berms or levees		
Man-made berms or levees Indicator Location	X		
Channel bar	Present		
Channel Bar Indicator Location	X		
Other Channel Indicators			
Instream bedforms and other bedload transport evidence	Present		
Instream bedforms Indicator Location	b		

Other instream bedforms and bedload transport evidence	deposition bedload indicators (e.g., poofs, riffles, steps, etc.)
Deposition Bedload Indicator Location	
Secondary channels	
Sediment Indicators	
Soil development	
Changes in character of soil	
Mudcracks	
Changes in particle-sized distribution	
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	X
General Vegetation Change	vegetation absent to:
vegetation absent to:	forbs
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	
Ancillary Indicators	
Ancillary Indicators	
Other observed indicators?	No
Step 4: Additional Informatio	n
Is additional information needed to support this determination?	No
Step 5: Rationale	
Describe rationale for location of OHWM	The OHWM occurs at the development of alternate channel bars, and where absent vegetation transitions to forbs. These indicators persist throughout the delineated reach of this stream.
Additional observations or notes	Fish present and natural development of alternate bars present.
Photos	
Photo log attached?	Yes
Photos	



Upstream photo, with vegetation transition present.



Stream substrate.



Downstream photo, with vegetation transition present.

- Rapid Ordinary High Wa	ater Mark (OHWM) 1.0
Project	21028 Hoffman Falls Wetland Delineation
ID	352964
Survey Date	06/02/2023
User	Rachael Foote
General Information	
Project ID #	93-ST004
Site Name	Hoffman Falls
Date	06/02/2023
Time	01:06 PM
Location	
Latitude	42.91965967
Longitude	-75.63540467
Datum	NAD83/2011
Investigator(s)	RF RS
Step 1: Site overview from rer	note and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	Topographic mapping indicates the presence of a channel within forest.
Step 2: Site conditions during	field assessment
Describe Site Condition	Stream gradient is steep in several areas of the stream reach. No flow at the time of delineation. possibly previously ditched.
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	x
Other break in slope indicators	on the bank
On the bank Indicator Location	X
Shelving	Present
Shelving Indicator Location	X
Other Shelving Indicators	shelf at top of bank
shelf at top of bank Indicator Location	X
Channel bar	Present
Channel Bar Indicator Location	X

Other Channel Indicators	vegetation transition (go to veg. indicators)
Vegetation Transition Indicator Location	b
lnstream bedforms and other bedload transport evidence	Present
Instream bedforms Indicator Location	b
Other instream bedforms and bedload transport evidence	deposition bedload indicators (e.g., poofs, riffles, steps, etc.)
Deposition Bedload Indicator Location	b
Secondary channels	
Sediment Indicators	
Soil development	Present
Soil Development Indicator Location	a
Changes in character of soil	Present
Changes in character of soil Indicator Location	b
Mudcracks	
Changes in particle-sized distribution	
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	X
General Vegetation Change	vegetation absent to:
vegetation absent to:	forbs
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	
Ancillary Indicators	
Ancillary Indicators	Wracking/presence of organic litter:
Wracking Indicator Location	b
Other observed indicators?	No
Step 4: Additional Information	1
Is additional information needed to support this determination?	No
Step 5: Rationale	

This is a very large, well-defined stream with several indicators present at the OHWM consistently throughout the reach of the stream.

Additional observations or notes

Photos

Photo log attached?

Photos



Yes

Break in slope, change in particle size distribution.



wracking, Break in slope, change in particle size distribution, change in vegetation,



wracking, change in particle size distribution, break in slope.



break in slope, intact roots,



substrate.

- Rapid Ordinary High W	ater Mark (OHWM) 1.0
Project	21028 Hoffman Falls Wetland Delineation
ID	354990
Survey Date	06/02/2023
User	Bennett Amberger
General Information	
Project ID #	33-ST004
Site Name	Hoffman Falls
Date	06/02/2023
Time	11:21 AM
Location	
Latitude	42.91929183
Longitude	-75.63949367
Datum	NAD83/2011
Investigator(s)	BA, GH
Step 1: Site overview from rer	mote and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	The adjacent land use is primarily forested wetland and active agriculture. Low baseflow was observed during the delineation
Step 2: Site conditions during	field assessment
Describe Site Condition	No observations of man-made or natural disturbances were found during the delineation.
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	X
Other break in slope indicators	on the bank, undercut bank
On the bank Indicator Location	X
Undercut Bank Indicator Location	X
Shelving	
Channel bar	
Instream bedforms and other bedload transport evidence	Present
Instream bedforms Indicator Location	b

Other instream bedforms and bedload transport evidence	deposition bedload indicators (e.g., poofs, riffles, steps, etc.), bedforms (e.g., imbricated clasts, gravel sheets, etc.), erosional bedload indicators (e.g., obstacle marks, scour, smoothing, etc.)
Deposition Bedload Indicator Location	b
Bedforms Indicator Location	b
Erosional Bedload Indicator Location	b
Secondary channels	
Sediment Indicators	
Soil development	
Changes in character of soil	Present
Changes in character of soil Indicator Location	b
Mudcracks	
Changes in particle-sized distribution	Present
Changes in particle-sized distribution Indicator Location	b
Other changes in particle- sized distribution	transition
transition from	Silt to cobble/gravel to bedrock
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	x
General Vegetation Change	vegetation absent to:
vegetation absent to:	forbs
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	Present
Exposed Roots Indicator Location	X
Ancillary Indicators	
Ancillary Indicators	Wracking/presence of organic litter:, Presence of large wood:, Leaf litter disturbed or washed away:, Water staining:, Weathered clasts or bedrock:
Wracking Indicator Location	b
Presence of Large Wood Indicator Location	a
Leaf Litter Indicator Location	X
Water Staining Indicator Location	b
Weathered clasts or bedrock	b

Indicator Location	
Other observed indicators?	No
Step 4: Additional Information	1
ls additional information needed to support this determination?	No
Step 5: Rationale	
Describe rationale for location of OHWM	The OHWM occurs at the break in slope with exposed roots in intact soil layer, where absent vegetation transitions to forbs, and where leaf litter has been washed away. These indicators were the most consistent and persisted throughout the entire reach of the delineated stream.
Additional observations or notes	
Photos	
Photo log attached?	Yes
Photos	



Upstream photograph with break in slope and vegetation transition present.



Downstream photograph with exposed root layer within intact soil layer present.



Stream substrate photo.



Exposed roots within intact soils layer and break in slope present.



Presence of woody material above the OHWM.



Stream substrate photo.



Evidence of bedload erosional forces occurring below the OHWM within bedrock substrate of streambed.

Project21028 Hoffman Falls Wetland DelineationID355005Survey Date06/02/2023UserBennett AmbergerGeneral InformationProject ID #33-ST005	- Rapid Ordinary High Wa	ater Mark (OHWM) 1.0
Survey Date06/02/2023UserBennett AmbergerGeneral InformationV	Project	21028 Hoffman Falls Wetland Delineation
User Bennett Amberger General Information	ID	355005
General Information	Survey Date	06/02/2023
	User	Bennett Amberger
Project ID # 33-ST005	General Information	
	Project ID #	33-ST005
Site Name Hoffman Falls	Site Name	Hoffman Falls
Date 06/02/2023	Date	06/02/2023
Time 12:42 PM	Time	12:42 PM
Location	Location	
Latitude 42.91962217	Latitude	42.91962217
Longitude -75.63950117	Longitude	-75.63950117
Datum NAD83/2011	Datum	NAD83/2011
Investigator(s) BA GH	Investigator(s)	BA GH
Step 1: Site overview from remote and online resources	Step 1: Site overview from rer	note and online resources
Check boxes for online LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic		LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic
resources used to evaluate maps site		maps
Other Natural Resource Mapper	Other	Natural Resource Mapper
Describe land use and flow conditions from onlineThe adjacent land use is primarily forested wetland and active agriculture. Low baseflow was observed during the delineation resources.	conditions from online	
Step 2: Site conditions during field assessment	Step 2: Site conditions during	field assessment
Describe Site Condition No observations of man-made or natural disturbances were found during the delineation.	Describe Site Condition	No observations of man-made or natural disturbances were found during the delineation.
Step 3 Indicators	Step 3 Indicators	
Geomorphic Indicators	Geomorphic Indicators	
Break in slope Present	Break in slope	Present
Break in Slope Indicator x Location		X
Other break in slope on the bank indicators		on the bank
On the bank Indicator x Location		X
Shelving	Shelving	
Channel bar	Channel bar	
Instream bedforms and other bedload transport evidence	other bedload transport	
Secondary channels	Secondary channels	
Sediment Indicators	Sediment Indicators	
Soil development	Soil development	

Changes in character of soil	Present
Changes in character of soil Indicator Location	X
Mudcracks	
Changes in particle-sized distribution	Present
Changes in particle-sized distribution Indicator Location	X
Other changes in particle- sized distribution	transition
transition from	Silt to cobble/gravel
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	X
General Vegetation Change	vegetation absent to:
vegetation absent to:	forbs
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	
Ancillary Indicators	
Ancillary Indicators	Leaf litter disturbed or washed away:, Water staining:
Leaf Litter Indicator Location	X
Water Staining Indicator Location	a
Other observed indicators?	
Step 4: Additional Information	n
Is additional information needed to support this determination?	No
Step 5: Rationale	
Describe rationale for location of OHWM	The OHWM occurs at the break in slope, where soil character development and sorting begins, and where absent vegetation transitions to forbs. These indicators were the most consistent and persisted throughout the entire reach of the delineated stream.
Additional observations or	
notes	
notes Photos Photo log attached?	Yes



Stream substrate, with water staining above the OHWM.



Upstream photograph with transition in vegetation.



Stream substrate, with change in soil character.



Downstream photograph, with vegetation transition present.

- Rapid Ordinary High W	ater Mark (OHWM) 1.0
Project	21028 Hoffman Falls Wetland Delineation
ID	355672
Survey Date	06/06/2023
User	Bennett Amberger
General Information	
Project ID #	33-ST002-2
Site Name	Hoffman Falls
Date	05/31/2023
Time	11:40 AM
Location	
Latitude	42.94250633
Longitude	-75.759507
Investigator(s)	BA, GH
Step 1: Site overview from re	mote and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	Stream exists within forested area adjacet to active agriculture. Stream corresponds to a NYSDEC mapped class C stream.
Step 2: Site conditions during	field assessment
Describe Site Condition	Stream connects to wetlands 33-W005 and 33-W003.
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	X
Other break in slope indicators	undercut bank
Undercut Bank Indicator Location	X
Shelving	
Channel bar	Present
Channel Bar Indicator Location	b
Other Channel Indicators	
Instream bedforms and other bedload transport evidence	Present
Instream bedforms Indicator Location	b

Other instream bedforms and bedload transport evidence	deposition bedload indicators (e.g., poofs, riffles, steps, etc.)
Deposition Bedload Indicator Location	
Secondary channels	
Sediment Indicators	
Soil development	
Changes in character of soil	Present
Changes in character of soil Indicator Location	X
Mudcracks	
Changes in particle-sized distribution	Present
Changes in particle-sized distribution Indicator Location	X
Other changes in particle- sized distribution	
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	X
General Vegetation Change	vegetation absent to:
vegetation absent to:	forbs
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	Present
Exposed Roots Indicator Location	X
Ancillary Indicators	
Ancillary Indicators	Wracking/presence of organic litter:
Wracking Indicator Location	X
Other observed indicators?	No
Step 4: Additional Information	
ls additional information needed to support this determination?	No
Step 5: Rationale	
Describe rationale for location of OHWM	OHWM occurs at extent of wracking, break in slope at undercut banks further downstream.
Additional observations or	

Photos

Photos

Photo log attached?





Yes

Break in slope, change in particle size distribution, change in vegetation type and density.



Break in slope, change in particle size distribution, change in vegetation type and density.



Change in vegetation type and density, change in particle size distribution.



Break in slope, change in particle size distribution, change in vegetation type and density.



Break in slope, change in particle size distribution, change in vegetation type and density.

- Rapid Ordinary High W	ater Mark (OHWM) 1.0
Project	21028 Hoffman Falls Wetland Delineation
ID	356371
Survey Date	06/06/2023
User	Bennett Amberger
General Information	
Project ID #	33-ST006
Site Name	Hoffman Falls
Date	06/06/2023
Time	03:31 PM
Location	
Latitude	42.91376783
Longitude	-75.6406
Datum	NAD83/2011
Investigator(s)	BA, ME
Step 1: Site overview from rem	mote and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	Lies within wetland, typical flow conditions at time of survey.
Step 2: Site conditions during	; field assessment
Describe Site Condition	Lies within wetland, no apparent man made disturbance.
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	a
Other break in slope indicators	
Shelving	
Channel bar	
Instream bedforms and other bedload transport evidence	
Secondary channels	
Sediment Indicators	
Soil development	
Changes in character of soil	
Mudcracks	Present

Mudcracks Indicator Location	b
Changes in particle-sized distribution	
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	X
General Vegetation Change	vegetation absent to:
vegetation absent to:	graminoids
Vegetation matted down and/or bent:	Present
Matted/Bent Vegetation Indicator Location	b
Exposed roots below intact soil layer:	
Ancillary Indicators	
Ancillary Indicators	Wracking/presence of organic litter:, Water staining:
Wracking Indicator Location	b
Water Staining Indicator Location	b
Other observed indicators?	
Step 4: Additional Information	n
ls additional information needed to support this determination?	No
Step 5: Rationale	
Describe rationale for location of OHWM	Un-vegetated stream channel with vegetation that is bent down. It is diffusive through a wetland as it flows south.
Additional observations or notes	
Photos	
Photo log attached?	Yes
Photos	



Mud cracks.



Break in slope



Mud cracks, change in vegetation type and density.



Mud cracks.



Mudcracks, change in vegetation density, break in slope.

Project 21028 Hoffman Falls Wetland Delineation ID 356372 Survey Date 06/06/2023 User Bennett Amberger General Information Project ID # Project ID # 26-ST001 Site Name Hoffman Falls Date 06/06/2023 Location 42-9133045 Location Lattude Longlude -75.64111783 Datu NAD832011 Investigator(s) BA, AL, ME Step 1: Site overview from remover and online resources maps Check boxes for online resources used to evaluate site Step 1 site overview from remover and online resources Other Natural Resource Mapper Describe Faitu Use and flow conditions from online resources. Step 2 site conditions during area is previously developed agriculture. Step 3 Indicators Step 3 Indicators Genomphic Indicators resent Break in Slope Indicator x Step 3 Indicators x Genomphic Indicators Step 3 Indicators Step 3 Indicators Step 3 Indicators Genomphic Indicators x Break in Slope Indicator x Step 3 Indicators Step 3 Indicators Step 3 Indicators Step 3 Indicators <	- Rapid Ordinary High W	ater Mark (OHWM) 1.0
ID 356372 Survey Date 06/05/2023 User Bennett Amberger General Information Project ID & Project ID & 1657001 Site Name Hoffman Falls Date 06/06/2023 Time 04/07 PM Location 42.9133045 Longlude -75.64111783 Datum NAD83/2011 Investigator(s) BA. AL, ME Step 15 Site overview from re-corres Check boxes for online resources used to evaluate ite LiDAR, dimatic data, geologic maps, land use maps, other, satellite imagery, topographic resources used to evaluate ite Other Natural Resource Mapper Describe land use and flow conditions from online resources. Step 16 ascessment Step 2 Site conditions Iel ascessment Step 3 Indicators Seconditions durity area is previously developed agriculture. Conditions from online resources. Step 3 Indicators Present Genomorphic Indicators Secondition source used to evaluate indicators Step 4 Indicators Secondition source used to evaluate indicators Step 3 Indicators Secondition source used to evaluate indicators Step 3 Indicators Secondition source used to evaluate indicators Step 4 Indicators Secondition source used to evaluate indicators <		
User Bennett Amberger General Information Project ID # Project ID # 26-ST001 Site Name Hoffman Falls Date 06/06/2023 Time 04/07 PM Location Latitude 42.9133045 Latitude 42.9133045 Immetion Investigator(s) BA, AL, ME Step 1: Site overview from remote and online resources Check boxes for online resources used to evaluate LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps Other Natural Resource Mapper Describe land use and flow conditions from online resources. surrounding area is previously developed agriculture. Step 2: Site condition online resources. fed via culvert under roadway, joins with wetland at southern tip. Step 3 Indicators x Genomerphic Indicators x Other break in slope Present Break in slope Present Channel bar x Channel bar Scolary channels Shelving Scolary channels Shelving Scolary channels	ID	356372
General Information Project ID # 26-5T001 Site Name Hoffman Falls Date 06/06/2023 Time 04:07 PM Location - Latilude 42.913045 Longitude -75.64111783 Datum NAD83/2011 Investigator(s) BA, AL, ME Step 1: Site overview from remote and online resources - Check boxes for online resources used to evalue to	Survey Date	06/06/2023
Project ID # 26-ST001 Site Name Hoffman Falls Date 06/06/2023 Time 04/07 PM Location 42.9133045 Longlude 7.5.64111783 Datum NAD83/2011 Investigator(s) BA, AL, ME Step 1: Site overview from tere and online resources Check boxes for online resources used to evaluate site LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps Other Natural Resource Mapper Other Natural Resource Mapper Other Natural Resource Mapper Other Surrounding area is previously developed agriculture. Conditions from online resources. Fed via culvert under roadway, joins with wetland at southern tip. Step 2: Site conditions fed via culvert under roadway, joins with wetland at southern tip. Step 3 Indicators Secondary channels Geomorphic Indicators × Step 4 in slope Present Break in slope Present Step 4 in slope Step 4	User	Bennett Amberger
Site NameHoffman FallsDate06/06/2023Time06/06/2023Time0407 PMLocation42.9133045Longitude42.9133045Longitude75.64111783DatumNDA83/2011Investigator(s)BA, AL, MEStep 1: Site overview for motime resourcesCheck boxes for online resources used to evaluate isteLiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic mapsOtherNatural Resource MapperOtherNatural Resource MapperStep 2: Site conditions during resources.surrounding area is previously developed agriculture. conditions from online fed via culvert under roadway, joins with wetland at southern tip.Step 3: Indicators Geomorphic IndicatorsPresentBreak in SlopePresentChannel bar-Instream bedforms and outer collegad transportsurful science scienceStep outer collegad transportSurful scienceSteondry channel bar-Instream bedforms and other beoload transportsurful scienceSteiner IndicatorsSurful scienceSteondary channel bar-Steiner IndicatorsSurful scienceSteondary channel-Steiner Indicators-Steiner Indicators-Steiner Indicators-Steiner Indicators-Steiner Indicators-Steiner Indicators-Steiner Indicators-Steiner Indicators-<	General Information	
Date06/06/2023Time04:07 PMLocation42.913045Logitude47.56.4111783DatumNAD83/2011Investigator(s)BA, AL, MEStep 1: Site overview from resourcesCheck boxes for online resources used to evaluate siteLiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic mapsOtherNatural Resource MapperDescribe land use and flow resources.surrounding area is previously developed agriculture.Step 2: Site conditions during fed assesmentStep 2: Site conditions during resourcesStep 3: Indicatorsfed via culvert under roadway, joins with wetland at southern tip.Step 3: IndicatorsPresentBreak in SlopePresentBreak in Slope IndicatorxChannel barShelvingChannel barSite Site Conditions form sonteStep 3: Slope IndicatorsSite Site Site Site Site Site Site Site	Project ID #	26-ST001
Time 04:07 PM Location 4.29133045 Latitude 4.29133045 Longtude -75.64111783 Datum NAD83/2011 Investigator(s) BA, AL, ME Step 1: Site overview from resources Check boxes for online resources used to evaluate site LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps Other Natural Resource Mapper Describe land use and flow conditions from online resources. surrounding area is previously developed agriculture. Step 2: Site condition fed via culvert under roadway, joins with wetland at southern tip. Step 3 Indicators Geomorphic Indicators x Describe Site Condition x Other bit in Slope Present Break in Slope Indicator x Shelving x Cocation x Shelving surrounder sources	Site Name	Hoffman Falls
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Instream bedforms and other bedload transport evidence Secondary channels Sediment Indicators Soil development Changes in character of soil	Shelving	
other bedload transport evidence Secondary channels Sediment Indicators Soil development Changes in character of soil	Channel bar	
Sediment Indicators Soil development Changes in character of soil	other bedload transport	
Soil development Changes in character of soil	Secondary channels	
Changes in character of soil	Sediment Indicators	
	Soil development	
Mudcracks Present	Changes in character of soil	
	Mudcracks	Present

Mudcracks Indicator Location	b
Changes in particle-sized distribution	
Vegetation Indicators	
Change in vegetation type and/or density	
Vegetation matted down and/or bent:	Present
Matted/Bent Vegetation Indicator Location	X
Exposed roots below intact soil layer:	
Ancillary Indicators	
Ancillary Indicators	
Other observed indicators?	No
Step 4: Additional Informatio	n
ls additional information needed to support this determination?	No
Step 5: Rationale	
Describe rationale for location of OHWM	Break in slope was present at the OHWM throughout the entire reach of stream. Matted vegetation and mudcracks were noted below the OHWM in the streambed.
Additional observations or notes	
Photos	
Photo log attached?	Yes
Photos	



stream hidden under vegetation.



stream hidden under vegetation.



mud cracks near culvert, change in vegetation.



change in vegetation, mud cracks, break in slope



change in vegetation.

- Rapid Ordinary High W	/ater Mark (OHWM) 1.0
Project	21028 Hoffman Falls Wetland Delineation
ID	355513
Survey Date	06/12/2023
User	Megan Aubertine
General Information	
Project ID #	10-ST002
Site Name	Hoffman Falls 21028
Date	06/12/2023
Time	03:19 PM
Location	
Latitude	42.91699017
Longitude	-75.66919967
Investigator(s)	RN MA
Step 1: Site overview from re	mote and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	Low area between agricultural field and successional slope.
Step 2: Site conditions during	g field assessment
Describe Site Condition	Rain within the past day. Drains culvert and flows into wetland.
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	X
Other break in slope indicators	
Shelving	
Channel bar	
Instream bedforms and other bedload transport evidence	
Secondary channels	
Sediment Indicators	
Soil development	
Changes in character of soil	
Mudcracks	
Changes in particle-sized	

distribution

distribution	
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	X
General Vegetation Change	vegetation absent to:
vegetation absent to:	woody shrubs
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	
Ancillary Indicators	
Ancillary Indicators	
Other observed indicators?	No
Step 4: Additional Informatio	n
ls additional information needed to support this determination?	No
Step 5: Rationale	
Describe rationale for location of OHWM	Break in slope with vegetation absent to woody shrubs along entirety of stream at the OHWM.
Additional observations or notes	

Photos

Photo log attached?

Photos



Change in vegetation.



subtle break in slope and change in vegetation.



Change in vegetation.

- Rapid Ordinary High W	ater Mark (OHWM) 1.0
Project	21028 Hoffman Falls Wetland Delineation
ID	360271
Survey Date	06/21/2023
User	Josh Bean
General Information	
Project ID #	66-ST004
Site Name	Hoffman Falls
Date	06/21/2023
Time	02:40 PM
Location	
Latitude	42.94974439
Longitude	-75.74348518
Datum	WGS84
Investigator(s)	JB, AT
Step 1: Site overview from re	mote and online resources
Check boxes for online	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic
resources used to evaluate site	maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	surrounding area is upland forest with trails running through. typical flow conditions at time of survey.
Step 2: Site conditions during	g field assessment
Describe Site Condition	Low base flow. Cobble, gravel, sandy substrate, no barriers impacting flow. Bordered by dense scrub shrub riparian habitat
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	X
Other break in slope indicators	
Shelving	
Channel bar	
Instream bedforms and other bedload transport evidence	
Secondary channels	
Sediment Indicators	
Soil development	
Changes in character of soil	

Mudcracks	
Changes in particle-sized distribution	Present
Changes in particle-sized distribution Indicator Location	X
Other changes in particle- sized distribution	
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	X
General Vegetation Change	vegetation absent to:
vegetation absent to:	woody shrubs
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	
Ancillary Indicators	
Ancillary Indicators	
Other observed indicators?	No
Step 4: Additional Informatio	n
Is additional information needed to support this determination?	No
Step 5: Rationale	
Describe rationale for location of OHWM	Break in slope and change in vegetation type and density were both the strongest indicators for stream OHWM.
Additional observations or notes	
Photos	
Photo log attached?	Yes
Photos	



View of change in vegetation type.



Break in slope, change in vegetation type, change in particle size distribution.

Project 21028 Hoffman Falls Wetland Delineation ID 362478 Survey Date 06/27/2023 User Rachel Nazak General Information Project ID # Project ID # 05-5T002 Site Name 21020 Hoffman Falls Date 06/27/2023 Time 06/27/2023 Time 06/27/2023 Location Latitude Location 42.92952033 Longitude -75.702229 Datum NAD83/2011 Investigator(s) RN, JK Step 1: Site overview from remote and online resources Check boxes for online resources used to evaluate site LiDAR (linatic data, geologic maps, land use maps, other, satellite imagery, topographic maps Step 1: Site conditions drom online resources. Site Natural Resource Mapper Describe land use and flow conditions from online resources. Site and Sit	- Rapid Ordinary High W	ater Mark (OHWM) 1.0
ID362478Survey Date06/27/2023UserRachel NazakGeneral InformationProject ID #05/57002Site Name21020 Hoffman FallsDate06/27/2023Time08/53 AMLocationLatitude42/92952033Longfude-75/70229DatumNAD83/2011Investigator(s)RN, JKStep Step KoronilliceIDAR_Climatic data, geologic maps, land use maps, other, satellite imagery, topographic resources used to evaluate tereOtherNatural Resource MapperDescribe land use and flow conditions from online resources.Surounding area is upland forest. conditions from online resources.Step 2: Site conditionFreskensible, rain within the past 24hrsStep 3: Indicators Geomorphic Indicators Cacation*Step 4: Site per Site ConditionsFresken SiteStep 4: Site per Site Conditions*Step 5: Site conditions of present Cacation*Step 4: Site per Site Conditions*Step 4: Site Conditions*Step 5: Site conditions*Step 5: Site conditions*Step 6: S		
UserRachel NazakGeneral InformationProject ID #05-ST002Site Name21020 Hoffman FallsDate06/27/2023Time08/257/2023Location42.92952033Latitude42.92952033Longitude-75.70229DatumNAB3/2011Investigator(s)RN, JKStep 1: Site overview from rewet and online resourcesCheck boxes for online resources used to evaluatLiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic mapsOtherNatural Resource MapperDescribe Iand use and flow resources.Step 1 Site Condition sterp 1 Site ConditionStep 2 Site ConditionSteeply sloping forested hillside, rain within the past 24hrsStep 3 Indicators contorins*Step 3 Indicators contorins*Step 3 Indicators shelving*Cocation*Step 4 Indicator solor with resource MapperDescribe Site ConditionSteeply sloping forested hillside, rain within the past 24hrsStep 3 Indicator solor with resource MapperDescribe Site Condition*Step 3 Indicator solor with resource MapperCocation*Step 3 Indicator solor with resource MapperDescribe Site Condition*Step 4 IndicatorStep 3 Indicator solor with resource MapperCocation*Step 4 IndicatorsStep 3 IndicatorsShelvingSite Condition solorSite All bar <td>ID</td> <td>362478</td>	ID	362478
General InformationProject ID #05-51002Site Name21020 Hoffman FallsDate06/27/2023Time08:53 AMLocation42.9295033Longitude-75/70229DatumNAD83/2011Investigator(s)RN, JKStep 1: Site overview from reve and online resourcesmapsCheck boxes for online resources and solve resources and solve resources and solve and flow conditions from online resource MapperOtherNatural Resource MapperDescribe Iand use and flow solve and solve solve and solve and flow conditions from online resources and solve and flow conditions from online resources and solve and flow conditions from online resources and solve and flow conditions form online resources and solve and flow conditions form online resources and solve and flow conditions form online resources.Step 3: IndicatorsStep 3: IndicatorsGeneration functionation and the solve and flow conditions form online resources and solve and flow conditions form online resources.Step 3: IndicatorsStep 3: IndicatorsStep 3: IndicatorsStep 3: Step 3: IndicatorsGeneratic Indicators×Shelving-Channel bar-Instream bedforms and other bedform and brain solveSecondary channels-Secondary channels-Secondary channels-Secondary channels-Secondary channels-Secondary cha	Survey Date	06/27/2023
Project ID # 05-ST002 Site Name 21020 Hoffman Falls Date 06/27/2023 Time 08/37 AM Location 2000 Hoffman Falls Location 08/27/2023 Longfuide 42.92952033 Longfuide 75.702229 Datum NAD83/2011 Investigator(s) RN, JK Step 1: Site overview from retore and online resources UDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps resources used to evaluate site Surrounding area is upland forest. Other Natural Resource Mapper Describe land use and flow conditions from online resources. Surrounding area is upland forest. Step 2: Site conditions during field assessment Step 91 sloping forested hillside, rain within the past 24hrs Step 3 Indicators Step 91 sloping forested hillside, rain within the past 24hrs Shelving × Channel bar × Instream bedforms and other bedicat transport × Shelving × Channel bar × Instream bedforms and other bedicat transport × Shelving × Channel bar × Instream bedforms and other bedicat transport × Shelving × <t< td=""><td>User</td><td>Rachel Nazak</td></t<>	User	Rachel Nazak
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Longitude-75.702229DatumNAD83/2011Investigator(s)RN, JKStee overview from resourcesCheck boxes for online resources used to evaluate siteOtherNatural Resource MapperDescribe land use and flow conditions from online 	Location	
Datum NAD83/2011 Investigator(s) RN, JK Step 1: Site overview from remote and online resources IDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps Check boxes for online resources IDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps Check boxes for online resources used to evaluate iste IDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps Other Natural Resource Mapper Describe land use and flow conditions fueld assessment Surrounding area is upland forest. Describe Site Condition Steeply sloping forested hillside, rain within the past 24hrs Step 3 Indicators Steeply sloping forested hillside, rain within the past 24hrs Step 3 Indicators Present Break in slope Present Break in slope Indicator × Channel bar Shelving Channel bar Shelving Stecondary channels Secondary channels Secondary channels Soil development	Latitude	42.92952033
Investigator(s) RN, JK Step 1: Site overview from re-te and online resources Check boxes for online resources used to evaluate site LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps Other Natural Resource Mapper Describe land use and flow conditions from online resources. Surrounding area is upland forest. Step 2: Site condition Steeply sloping forested hillside, rain within the past 24hrs Step 3 Indicators Geomorphic Indicators Steeply sloping forested hillside, rain within the past 24hrs Break in slope Present Break in slope Indicators × Other break in slope indicators × Shelving - Channel bar - Instream bedforms and other bedload transport evidence - Secondary channels - Secondary channels -	Longitude	-75.702229
Step 1: Site overview from remote and online resources Check boxes for online resources used to evaluate site LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps Other Natural Resource Mapper Describe land use and flow conditions from online resources. Surrounding area is upland forest. Step 2: Site conditions during field assessment Describe Site Condition Steeply sloping forested hillside, rain within the past 24hrs Step 3 Indicators Geomorphic Indicators Present Break in slope Present Break in slope Indicator x Other singlop x Other singlop x Cothannel bar Instream bedforms and other bedload transport evidence Secondary channels Secondary channels	Datum	NAD83/2011
Check boxes for online resources used to evaluate siteLiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic mapsOtherNatural Resource MapperDescribe land use and flow conditions from online resources.Surrounding area is upland forest.Step 2: Site conditions during field assessmentDescribe Site ConditionDescribe Site ConditionSteeply sloping forested hillside, rain within the past 24hrsStep 3 Indicators Geomorphic IndicatorsPresentBreak in slopePresentBreak in slope Indicator LocationxOther break in slope Indicators ShelvingSurrounding area is upland forest.Channel barIndicatorsStep 3 Indicators Geomorphic IndicatorsSurrounding area is upland forest.Step 3 Indicators Geomorphic IndicatorsStep 2 Indicator Surrounding area is upland forest.Break in slopePresentBreak in slope Indicator LocationxStep 3 Indicators Geomorphic IndicatorsSurrounding area is upland forest.Step 3 Indicators Geomorphic IndicatorsSurrounding area is upland forest.Break in slope LocationPresentIndicatorsSurrounding area is upland forest.Step 3 IndicatorsSurrounding area is upland forest.Step 3 Indicator LocationXStep 4 IndicatorsSurrounding area is upland forest.Step 5 Indicator LocationSurrounding area is upland forest.Step 6 Indicator LocationSurrounding area is upland forest.Step 7 Indicator Surrounding	Investigator(s)	RN, JK
resources used to evaluate maps site Natural Resource Mapper Describe land use and flow conditions from online resources. Step 2: Site conditions during field assessment Describe Site Condition Steeply sloping forested hillside, rain within the past 24hrs Step 3 Indicators Geomorphic Indicators Break in Slope Mersent Break in Slope Indicator × Cotarion × Other break in slope indicators Shelving Channel bar Instream bedforms and other bedload transport evidence Secondary channels Secondary channels Sediment Indicators Soil development Changes in character of soil	Step 1: Site overview from re	mote and online resources
Describe land use and flow conditions from online resources. Surrounding area is upland forest. Step 2: Site conditions during field assessment Step 2: Site Condition Describe Site Condition Steeply sloping forested hillside, rain within the past 24hrs Step 3: Indicators Geomorphic Indicators Break in slope Present Break in Slope Indicator x Other break in slope indicators s Shelving - Channel bar - Instream bedforms and other bedload transport evidence - Secondary channels - Secondary channels - Soil development - Changes in character of soil -	resources used to evaluate	
conditions from online resources. Step 2: Site conditions during field assessment Describe Site Condition Steeply sloping forested hillside, rain within the past 24hrs Step 3 Indicators Geomorphic Indicators Geomorphic Indicators Present Break in Slope Indicator x Other break in Slope Indicators x Other break in slope	Other	Natural Resource Mapper
Describe Site Condition Steeply sloping forested hillside, rain within the past 24hrs Step 3 Indicators Geomorphic Indicators Geomorphic Indicators Present Break in slope Present Break in Slope Indicator x Other break in slope indicators Shelving	conditions from online	Surrounding area is upland forest.
Describe Site Condition Steeply sloping forested hillside, rain within the past 24hrs Step 3 Indicators Geomorphic Indicators Geomorphic Indicators Present Break in slope Present Break in Slope Indicator x Other break in slope	Step 2: Site conditions during	g field assessment
Geomorphic IndicatorsBreak in slopePresentBreak in Slope IndicatorxCocationxOther break in slope indicators-Shelving-Channel bar-Instream bedforms and other bedload transport evidence-Secondary channels-Secondary channels-Soil development-Changes in character of soil-		
Break in SlopePresentBreak in Slope Indicator LocationxOther break in Slope indicators-Shelving-Channel bar-Instream bedforms and other bedload transport evidence-Secondary channels-Secondary channels-Soil development-Changes in character of soil-	Step 3 Indicators	
Break in Slope Indicator x Dother break in slope	Geomorphic Indicators	
Location Other break in slope indicators Shelving Channel bar Instream bedforms and other bedload transport evidence Secondary channels Sediment Indicators Soil development Changes in character of soil	Break in slope	Present
indicators Shelving Channel bar Instream bedforms and other bedload transport evidence Secondary channels Secondary channels Soil development Changes in character of soil		X
Channel bar Instream bedforms and other bedload transport evidence Secondary channels Secondary channels Sediment Indicators Soil development Changes in character of soil		
Instream bedforms and other bedload transport evidence Secondary channels Sediment Indicators Soil development Changes in character of soil	Shelving	
other bedload transport evidence Secondary channels Sediment Indicators Soil development Changes in character of soil	Channel bar	
Sediment Indicators Soil development Changes in character of soil	other bedload transport	
Soil development Changes in character of soil	Secondary channels	
Changes in character of soil	Sediment Indicators	
	Soil development	
Mudcracks	Changes in character of soil	
	Mudcracks	

Changes in particle-sized distribution	Present
Changes in particle-sized distribution Indicator Location	X
Other changes in particle- sized distribution	transition
transition from	Cobble to silt
Vegetation Indicators	
Change in vegetation type and/or density	
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	
Ancillary Indicators	
Ancillary Indicators	Wracking/presence of organic litter:
Wracking Indicator Location	X
Other observed indicators?	No
Step 4: Additional Informatio	n
ls additional information needed to support this determination?	No
Step 5: Rationale	
Describe rationale for location of OHWM	OHWM exists where the break in slope and wracking are present.
Additional observations or notes	
Photos	
Photo log attached?	Yes
Photos	



Break in slope, change in particle size, wracking.



Break in slope, change in particle size, wracking.



Break in slope, change in particle size, wracking.

- Rapid Ordinary High Wa	ater Mark (OHWM) 1.0
Project	21028 Hoffman Falls Wetland Delineation
ID	363110
Survey Date	06/28/2023
User	Rachael Foote
General Information	
Project ID #	12-ST008
Site Name	Hoffman Falls
Date	06/28/2023
Time	12:11 PM
Location	
Latitude	42.90880083
Longitude	-75.6640095
Datum	NAD83/2011
Investigator(s)	RFAT
Step 1: Site overview from ren	note and online resources
Check boxes for online	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic
resources used to evaluate site	maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	Neighbors active pasture and farmland. Correlates with named Callahan Brook, NYSDEC mapped stream.
Step 2: Site conditions during	field assessment
Describe Site Condition	Rain in the last 24 hours.
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	X
Other break in slope indicators	
Shelving	
Channel bar	Present
Channel Bar Indicator Location	X
Other Channel Indicators	
Instream bedforms and other bedload transport evidence	Present
Instream bedforms Indicator Location	X
Other instream bedforms	deposition bedload indicators (e.g., poofs, riffles, steps, etc.)

and bedload transport	
evidence	
Deposition Bedload Indicator Location	
Secondary channels	
Sediment Indicators	
Soil development	
Changes in character of soil	Present
Changes in character of soil Indicator Location	X
Mudcracks	
Changes in particle-sized distribution	
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	X
General Vegetation Change	vegetation absent to:
vegetation absent to:	graminoids
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	Present
Exposed Roots Indicator Location	X
Ancillary Indicators	
Ancillary Indicators	Wracking/presence of organic litter:, Presence of large wood:, Leaf litter disturbed or washed away:
Wracking Indicator Location	X
Presence of Large Wood Indicator Location	X
Leaf Litter Indicator Location	X
Other observed indicators?	No
Step 4: Additional Information	1
ls additional information needed to support this determination?	No
Step 5: Rationale	
Describe rationale for location of OHWM	This is a very large, well-defined stream with several indicators present at the OHWM consistently throughout the reach of the stream.
Additional observations or notes	

Photo log attached?

Yes

Photos



change in vegetation type and density, break in slope.



Break in slope, change in vegetation type and density.

Project 21028 Hoffman Falls Wetland Delineation ID 365094 Survey Date 07/05/2023 User Rachtel Nazak General Information	- Rapid Ordinary High W	ater Mark (OHWM) 1.0
Survey Date07/05/2023UserRachel NazakGeneral Information12-ST010Site NameHoffman FallsDate07/05/2023Time0309 PMLocationLatitudeLatitude42.90162461Longitude-75.6094263DatumWGS84Investigator(s)RN RF ATStep 1: Site overview from tree and online resourcesCheck boxes for online resources used to evalue appsOtherNatural Resource MapperDescribe Land use and ROW Resources.Step 2: Site conditions resources.Step 3: IndicatorsStep 3: IndicatorsStep 4: Site conditionsStep 4: Site conditionsBescribe Land use and ROW Resources.OtherNo rain within past 24hs. Stream flows into 12-ST009Step 3: IndicatorsStep 3: IndicatorsStep 4: Site conditionsStep 4: Site conditionsStep 4: Site conditionsNo rain within past 24hs. Stream flows into 12-ST009Step 3: IndicatorsStep 4: Site conditionsStep 4: Site conditionsStep 4: Site ConditionStep 4: Site Site ConditionStep 5: Site ConditionStep 6: Site ConditionStep 7: Site conditionsStep 6: Site ConditionStep 8: Site ConditionStep 8: Site ConditionStep 9: Site ConditionStep 9: Site ConditionStep 9: Site ConditionStep 9: Site ConditionSite 8: Site 9: Site 2: Site Condition	Project	21028 Hoffman Falls Wetland Delineation
User Rachel Nazak General Information Is2St010 Project ID # 12-St010 Ste Name Hoffman Falls Date 07/05/2023 Time 0309 PM Location 42.90162461 Longitude 42.90162461 Investigator(s) RK SEA Investigator(s) RK SEA Investigator(s) RN RF AT Step 1: Site overview from tersources IDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic resources used to evaluate and sea and flow se	ID	365094
General InformationProject ID #1.2-5010Site NameHoffman FallsDate07/05/203Time03:09 PMLocation42.90162461Longitude-75.66094263DatumWG584Investigator(s)RN RF ATStep 1: Site overview from reto and online resourcesCheck boxes for online resources used to evaluate siteLiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic mapsOtherNatura Resource MapperDescribe land use and flow songitions from online isolar evaluate siteStep J solar with valley stream/floodplain wetland at bottom.Step 2: Site conditions during Field assessment coactionsStep J solar with in past 24hs. Stream flows into 12-ST009Step 3 Indicators Shelving×Step 1 Site conditions during Field assessment coactionGeromorphic Indicators×Shelving× </td <td>Survey Date</td> <td>07/05/2023</td>	Survey Date	07/05/2023
Project ID #12-ST010Site NameHoffman FallsDate0705/2023Time03:09 PMLocation	User	Rachel Nazak
Site NameHoffman FallsDate07/05/2023Time03/09 MLocation42.90162461Longitude42.90162463DatumWGS44Investigator(s)RN RF ATItime versume for the resourceLiDAR, dimatic data, geologic maps, land use maps, other, satellite imagery, topographic mapsOtherNatural Resource MapperOtherNatural Resource MapperDescribe land use and flow ersources.Steeply sloping forest with valley stream/floodplain wetland at bottom. conditions from online streak in slopeStep 3 EnclatorsSteeply sloping forest with valley stream/floodplain streamGenorphic IndicatorsPresentBreak in Slope IndicatorsPresentSteploge IndicatorsSteploge IndicatorsShelving	General Information	
Date07/05/2023Time03:09 PMLocation42.90162461Longlude-75.66094263DatumWGS84Investigator(s)RN RF ATStep 1: Site overview from ====================================	Project ID #	12-ST010
Time 03:09 PM Location 42.90162461 Latitude 42.90162461 Longitude 75.66094263 Datum WGS84 Investigator(s) RN RF AT Step 1: Site overview from resources Check boxes for online resources used to evaluate site LIDAR, dimatic data, geologic maps, land use maps, other, satellite imagery, topographic maps Other Natural Resource Mapper Describe land use and flow conditions from online resources. Steeply sloping forest with valley stream/floodplain wetland at bottom. Step 2: Site condition No rain within past 24hs. Stream flows into 12:5T009 Step 3 Indicators Present Geomorphic Indicators x Step 3 Indicators x Other beding a transport x Other break in slope Present Instream bedforms and other beding transport x Shelving - Channel bar - Instream bedforms and other beding transport - Secondary channels - Soli development - Gained wetland better of soil - Soli development -<	Site Name	Hoffman Falls
Lotation 42.90162461 Longitude -75.66094263 Datum WGS84 Investigator(s) RN RF AT Step 1: Site overview from resources maps Check boxes for online resources used to evaluate site LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps Other Natural Resource Mapper Describe land use and flow conditions from online resources. Steeply sloping forest with valley stream/floodplain wetland at bottom. Other Natural Resource Mapper Describe Indicators Korain within past 24hs. Stream flows into 12-ST009 Step 2: Site condition No rain within past 24hs. Stream flows into 12-ST009 Step 3: Indicators Present Geomorphic Indicators x Channel bar - Instream bedforms and other break in Slope Present Channel bar - Instream bedforms and otwidence Scienturdicators Secondary channels - Solid evelopment - Solid evelopment - Gamer Step Step Step Step Step Step Step Step	Date	07/05/2023
Latitude42.90162461Longitude-75.66094263DatumWGS84Investigator(s)RN RF ATStep 1: Site overview from	Time	03:09 PM
Longitude-75.66094263DatumWGS84Investigator(s)RN RF ATSite overview from ====================================	Location	
Datum WGS84 Investigator(s) RN RF AT Step 1: Site overview from reward and line resources IDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps Check boxes for online resources IDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps Check boxes for online resources IDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps Other Natural Resource Mapper Describe land use and flow conditions from online resources. Steeply sloping forest with valley stream/floodplain wetland at bottom. Describe Site Condition N rain within past 24hs. Stream flows into 12-ST009 Step 3 Indicators Present Geomorphic Indicators Present Break in slope Present Channel bar Instream bedforms and other sport Shelving Instream bedforms and other sport Secondary channels Scienter sport Secondary channels Instream bedforms and other sport	Latitude	42.90162461
Investigator(s) RN RF AT Step 1: Site overview from resources LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps site Other Natural Resource Mapper Describe land use and flow online resources Steeply sloping forest with valley stream/floodplain wetland at bottom. Step 2: Site conditions during Field assessment No rain within past 24hs. Stream flows into 12-ST009 Step 3 Indicators Present Gemorphic Indicators Present Break in slope Present Other break in slope × Other break in slope secondary channels Shelving - Channel bar - Instream beefforms and other sport - Secondary channels - Secondary channels - Soli development - Channel bar - Soli development - Soli development -	Longitude	-75.66094263
Step 1: Site overview from reworks LiDAR, dimatic data, geologic maps, land use maps, other, satellite imagery, topographic maps Other Natural Resource Mapper Describe land use and flow conditions from online resources. Steeply sloping forest with valley stream/floodplain wetland at bottom. Step 2: Site conditions during field assessment Steeply sloping forest with valley stream/floodplain wetland at bottom. Describe Site Condition No rain within past 24hs. Stream flows into 12-ST009 Step 3: Indicators Present Break in slope Present Break in slope Indicator x Other break in slope Present Indicators Steply sloping forest with valley stream flows into 12-ST009 Step 3: Indicators x Cocation x Other break in slope Present Break in slope Indicator x Cocation x Cocation x Shelving Instream bedforms and other sport Channel bar Instream bedforms and other bedload transport Secondary channels Secondary channels Soil development Changes in character of soil	Datum	WGS84
Check boxes for online resources used to evaluate siteLiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic mapsOtherNatural Resource MapperDescribe land use and flow conditions from online resources.Steeply sloping forest with valley stream/floodplain wetland at bottom.Step 2: Site conditions during field assessmentDescribe Site ConditionDescribe Site ConditionNo rain within past 24hs. Stream flows into 12-ST009Step 3 Indicators Geomorphic IndicatorsPresentBreak in Slope IndicatorxOther break in Slope IndicatorxOther break in Slope IndicatorsStep 3 IndicatorsOther break in Slope IndicatorxShelvingInstream bedforms and other break in slopeInstream bedforms and other beload transportStep 3 IndicatorsSecondary channelsStep 3 IndicatorsSoil developmentInstream bedforms and other beload transportSecondary channelsInstream bedforms and other beload transport	Investigator(s)	RN RF AT
resources used to evaluate maps maps other Natural Resource Mapper Describe land use and flow conditions from online resources. Steeply sloping forest with valley stream/floodplain wetland at bottom. Step 2: Site conditions during field assessment Steeply sloping forest with valley stream flows into 12-ST009 Step 3 Indicators Foresent Geomorphic Indicators Present Break in Slope Present Break in Slope Indicators × Other break in slope Present Shelving - Channel bar - Instream bedforms and other beddoat transport evidence - Secondary channels - Secondary channels - Soil development - Changes in character of soil -	Step 1: Site overview from re	mote and online resources
site Natural Resource Mapper Other Natural Resource Mapper Describe land use and flow conditions from online resources. Step 2: Site conditions durre Head assessment Describe Site Condition No rain within past 24hs. Stream flows into 12-ST009 Step 3 Indicators Geomorphic Indicators Break in slope Present Present Presek in slope Present Step 3 Presen	Check boxes for online	
Describe land use and flow conditions from online resources. Steeply sloping forest with valley stream/floodplain wetland at bottom. Step 2: Site conditions during field assessment No rain within past 24hs. Stream flows into 12-ST009 Step 3 Indicators Freak flows Geomorphic Indicators Present Break in Slope Indicator x Other break in Slope Indicator x Shelving - Channel bar - Instream bedforms and other bedload transport evidence - Secondary channels - Secondary channels - Soil development - Changes in character of soil -		maps
conditions from online resources. The transmission of transmissi	Other	Natural Resource Mapper
Describe Site Condition No rain within past 24hs. Stream flows into 12-ST009 Step 3 Indicators Geomorphic Indicators Geomorphic Indicators Present Break in slope Present Break in Slope Indicator x Other break in slope indicators s Shelving	conditions from online	Steeply sloping forest with valley stream/floodplain wetland at bottom.
Describe Site Condition No rain within past 24hs. Stream flows into 12-ST009 Step 3 Indicators Geomorphic Indicators Geomorphic Indicators Present Break in slope Present Break in Slope Indicator x Other break in slope indicators s Shelving	Step 2: Site conditions during	g field assessment
Geomorphic IndicatorsBreak in slopePresentBreak in Slope IndicatorxCocationxOther break in slope indicators-Shelving-Channel bar-Instream bedforms and other bedload transport evidence-Secondary channels-Secondary channels-Soil development-Changes in character of soil-		
Break in SlopePresentBreak in Slope Indicator×Other break in Slope>Indicators>Shelving>Channel bar>Instream bedforms and other bedload transport evidence>Secondary channels>Secondary channels>Soil development>Changes in character of soil>	Step 3 Indicators	
Break in Slope Indicator×Other break in slope indicators-Shelving-Channel bar-Instream bedforms and other bedload transport evidence-Secondary channels-Secondary channels-Soil development-Changes in character of soil-	Geomorphic Indicators	
Location Other break in slope indicators Shelving Channel bar Instream bedforms and other bedload transport evidence Secondary channels Secondary channels Soil development Changes in character of soil	Break in slope	Present
indicators Shelving Channel bar Instream bedforms and other bedload transport evidence Secondary channels Secondary channels Sediment Indicators Soil development Changes in character of soil		X
Channel bar Instream bedforms and other bedload transport evidence Secondary channels Sediment Indicators Soil development Changes in character of soil		
Instream bedforms and other bedload transport evidence Secondary channels Sediment Indicators Soil development Changes in character of soil	Shelving	
other bedload transport evidence Secondary channels Sediment Indicators Soil development Changes in character of soil	Channel bar	
Sediment Indicators Soil development Changes in character of soil	other bedload transport	
Soil development Changes in character of soil	Secondary channels	
Changes in character of soil	Sediment Indicators	
-	Soil development	
Mudcracks	Changes in character of soil	
	Mudcracks	

Changes in particle-sized distribution	Present
Changes in particle-sized distribution Indicator Location	X
Other changes in particle- sized distribution	transition
transition from	Cobble to silt
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	X
General Vegetation Change	vegetation absent to:
vegetation absent to:	forbs
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	
Ancillary Indicators	
Ancillary Indicators	
Other observed indicators?	No
Step 4: Additional Informatio	n
Is additional information needed to support this determination?	No
Step 5: Rationale	
Describe rationale for location of OHWM	OHWM present at the break in slope and lack of vegetation.
Additional observations or notes	
Photos	
Photo log attached?	Yes
Photos	



change in vegetation type and density, change in particle size distribution.



view showing change in particle size of stream bed, vegetation transition, and break in slope.

- Rapid Ordinary High W	ater Mark (OHWM) 1.0
Project	21028 Hoffman Falls Wetland Delineation
ID	365095
Survey Date	07/05/2023
User	Rachel Nazak
General Information	
Project ID #	12-ST011
Site Name	Hoffman Falls
Date	07/05/2023
Time	03:22 PM
Location	
Latitude	42.90166191
Longitude	-75.66105855
Datum	WGS84
Investigator(s)	RN RF AT
Step 1: Site overview from rer	mote and online resources
Check boxes for online	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic
resources used to evaluate site	maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	DEC stream flowing Eastward along valley bottom
Step 2: Site conditions during	field assessment
Describe Site Condition	No rain in past 24hrs. 12-ST011 and 12-ST010 join to form 12-ST009.
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	X
Other break in slope indicators	
Shelving	
Channel bar	
Instream bedforms and other bedload transport evidence	Present
Instream bedforms Indicator Location	X
Other instream bedforms and bedload transport evidence	
Secondary channels	

Sediment Indicators	
Soil development	
Changes in character of soil	
Mudcracks	
Changes in particle-sized distribution	Present
Changes in particle-sized distribution Indicator Location	x
Other changes in particle- sized distribution	transition
transition from	Cobble to silt
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	X
General Vegetation Change	vegetation absent to:
vegetation absent to:	forbs
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	Present
Exposed Roots Indicator Location	X
Ancillary Indicators	
Ancillary Indicators	
Other observed indicators?	No
Step 4: Additional Informatior	1
ls additional information needed to support this determination?	No
Step 5: Rationale	
Describe rationale for location of OHWM	This is a very large, well-defined stream with several indicators present at the OHWM consistently throughout the reach of the stream.
Additional observations or notes	
notes	Yes



Exposed roots



Break in slope, change in vegetation type and density, change in particle size distribution.



Break in slope, change in vegetation type and density, change in particle size distribution.



Depositional bar forming in inside of stream bed.

- Rapid Ordinary High W	ater Mark (OHWM) 1.0
Project	21028 Hoffman Falls Wetland Delineation
ID	365341
Survey Date	07/06/2023
User	Rachel Nazak
General Information	
Project ID #	12-ST013A
Site Name	Hoffman Falls
Date	07/06/2023
Time	09:12 AM
Location	
Latitude	42.902028
Longitude	-75.6622876
Investigator(s)	RN RF AT
Step 1: Site overview from re	mote and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	Forested area upslope from wetland along valley bottom with DEC mapped stream.
Step 2: Site conditions during	; field assessment
Describe Site Condition	No rain in past 24hrs
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	X
Other break in slope indicators	undercut bank
Undercut Bank Indicator Location	X
Shelving	Present
Shelving Indicator Location	X
Other Shelving Indicators	
Channel bar	Present
Channel Bar Indicator Location	a
Other Channel Indicators	
Instream bedforms and other bedload transport evidence	Present

Instream bedforms Indicator Location	X
Other instream bedforms and bedload transport evidence	
Secondary channels	Present
Secondary Channels Indicator Location	X
Sediment Indicators	
Soil development	
Changes in character of soil	
Mudcracks	
Changes in particle-sized distribution	
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	X
General Vegetation Change	forbs to:
forbs to:	deciduous trees
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	Present
Exposed Roots Indicator Location	X
Ancillary Indicators	
Ancillary Indicators	
Other observed indicators?	No
Step 4: Additional Information	า
ls additional information needed to support this determination?	No
Step 5: Rationale	
Describe rationale for location of OHWM	This is a very large, well-defined stream with several indicators present at the OHWM consistently throughout the reach of the stream.
Additional observations or notes	
Photos	
Photo log attached?	Yes
Photos	



channel bar, break in slope, change in particle size distribution, change in vegetation type and density



abrupt break in slope

- Rapid Ordinary High Wa	ater Mark (OHWM) 1.0
Project	21028 Hoffman Falls Wetland Delineation
ID	373728
Survey Date	07/26/2023
User	Josh Bean
General Information	
Project ID #	23-ST007
Site Name	Hoffman Falls
Date	07/26/2023
Time	10:23 AM
Location	
Latitude	42.93758133
Longitude	-75.73014233
Investigator(s)	RN RS
Step 1: Site overview from rer	note and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	No significant rainfall within past 72 hours of survey.
Step 2: Site conditions during	field assessment
Describe Site Condition	stream is surrounded by wetland and carries water through the wetland
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	X
Other break in slope indicators	undercut bank
Undercut Bank Indicator Location	X
Shelving	
Channel bar	
<u> </u>	Present
Channel bar Instream bedforms and other bedload transport	
Channel bar Instream bedforms and other bedload transport evidence Instream bedforms Indicator	
Channel bar Instream bedforms and other bedload transport evidence Instream bedforms Indicator Location Other instream bedforms and bedload transport	X

Indicator Location	
Secondary channels	Present
Secondary Channels	X
Indicator Location	
Sediment Indicators	
Soil development	
Changes in character of soil	
Mudcracks	
Changes in particle-sized distribution	Present
Changes in particle-sized distribution Indicator Location	X
Other changes in particle- sized distribution	transition
transition from	Cobble to silt
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	X
General Vegetation Change	vegetation absent to:
vegetation absent to:	woody shrubs
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	
Ancillary Indicators	
Ancillary Indicators	
Other observed indicators?	No
Step 4: Additional Informatio	n
ls additional information needed to support this determination?	No
Step 5: Rationale	
Describe rationale for location of OHWM	OHWM is occurring at the undercut banks of this stream as well as where particle sizes change from cobble and gravel to clay
Additional observations or notes	
Photos	
Photo log attached?	Yes
Photos	



Undercut bank.



Change in particle size distribution, change in vegetation type and density.



Wracking

- Rapid Ordinary High Wa	ater Mark (OHWM) 1.0
Project	21028 Hoffman Falls Wetland Delineation
ID	373729
Survey Date	07/26/2023
User	Josh Bean
General Information	
Project ID #	23-ST006
Site Name	Hoffman Falls
Date	07/26/2023
Time	10:23 AM
Location	
Latitude	42.93757717
Longitude	-75.73013817
Datum	NAD83/2011
Investigator(s)	RN RS
Step 1: Site overview from rer	mote and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	No recent rain within 72 hours of survey.
Step 2: Site conditions during	field assessment
Describe Site Condition	Change in vegetation from scrub shrub to absent in channel. Channel remains generally the same throughout.
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	X
Other break in slope indicators	undercut bank
Undercut Bank Indicator Location	X
Shelving	
Channel bar	
Instream bedforms and other bedload transport evidence	Present
Instream bedforms Indicator Location	X
Other instream bedforms and bedload transport	deposition bedload indicators (e.g., poofs, riffles, steps, etc.)

evidence		
Deposition Bedload Indicator Location	X	
Secondary channels	Present	
Secondary Channels Indicator Location	X	
Sediment Indicators		
Soil development		
Changes in character of soil		
Mudcracks		
Changes in particle-sized distribution	Present	
Changes in particle-sized distribution Indicator Location	X	
Other changes in particle- sized distribution	transition	
transition from	Cobble to silt	
Vegetation Indicators		
Change in vegetation type and/or density	Present	
Vegetation Indicator Location	X	
General Vegetation Change	vegetation absent to:	
vegetation absent to:	woody shrubs	
Vegetation matted down and/or bent:		
Exposed roots below intact soil layer:		
Ancillary Indicators		
Ancillary Indicators		
Other observed indicators?	No	
Step 4: Additional Information		
Is additional information needed to support this determination?	No	
Step 5: Rationale		
Describe rationale for location of OHWM	OHWM is occurring where there are significant undercut banks, wracking, and exposed roots below the intact soil layer.	
Additional observations or notes		
Photos		
Photo log attached?	Yes	



Undercut bank



Wracking, break in slope, change in particle size distribution



Exposed roots within intact soil layer, break in slope, change in particle size distribution

- Rapid Ordinary High W	/ater Mark (OHWM) 1.0
Project	21028 Hoffman Falls Wetland Delineation
ID	373730
Survey Date	07/26/2023
User	Josh Bean
General Information	
Project ID #	93-ST002A
Site Name	Hoffman Falls
Date	07/26/2023
Time	11:17 AM
Location	
Latitude	42.93715933
Longitude	-75.73046467
Datum	NAD83/2011
Investigator(s)	RN RS
Step 1: Site overview from re	mote and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	No recent rain. Steep sloped stream.
Step 2: Site conditions during	g field assessment
Describe Site Condition	Steep rockfall stream.
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	X
Other break in slope indicators	
Shelving	
Channel bar	
Instream bedforms and other bedload transport evidence	
Secondary channels	
Sediment Indicators Soil development	
Changes in character of soil	
Mudcracks	

Changes in particle-sized distribution	Present
Changes in particle-sized distribution Indicator Location	X
Other changes in particle- sized distribution	transition
transition from	Silt to cobble
Vegetation Indicators	
Change in vegetation type and/or density	
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	
Ancillary Indicators	
Ancillary Indicators	Wracking/presence of organic litter:
Wracking Indicator Location	b
Other observed indicators?	No
Step 4: Additional Informatio	n
ls additional information needed to support this determination?	No
Step 5: Rationale	
Describe rationale for location of OHWM	The OHWM is occurring where particle size distribution changes from silt to boulders and cobble, and also at the break in slope.
Additional observations or notes	
Photos	
Photo log attached?	Yes
Photos	



Break in slope, change in particle size, and wracking.



wracking



Change in particle size, break in slope.

- Rapid Ordinary High W	/ater Mark (OHWM) 1.0
Project	21028 Hoffman Falls Wetland Delineation
ID	373731
Survey Date	07/26/2023
User	Josh Bean
General Information	
Project ID #	93-ST003
Site Name	Hoffman Falls
Date	07/26/2023
Time	11:26 AM
Location	
Latitude	42.93713083
Longitude	-75.73052383
Datum	NAD83/2011
Investigator(s)	RN RS
Step 1: Site overview from re	mote and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	No recent rain. Steep sloped stream.
Step 2: Site conditions during	g field assessment
Describe Site Condition	Steep rockfall stream.
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	X
Other break in slope indicators	
Shelving	
Channel bar	
Instream bedforms and other bedload transport evidence	
Secondary channels	
Sediment Indicators Soil development	
Changes in character of soil	
Mudcracks	

Changes in particle-sized distribution	Present
Changes in particle-sized distribution Indicator Location	X
Other changes in particle- sized distribution	transition
transition from	Boulder to silt
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	X
General Vegetation Change	forbs to:
forbs to:	deciduous trees
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	
Ancillary Indicators	
Ancillary Indicators	Wracking/presence of organic litter:
Wracking Indicator Location	b
Other observed indicators?	No
Step 4: Additional Information	n
ls additional information needed to support this determination?	No
Step 5: Rationale	
Describe rationale for location of OHWM	OHWM is occurring where particles change from silt to boulder and cobble
Additional observations or notes	
Photos	
Photo log attached?	Yes
Photos	



break in slope, change in particle size distribution, change in vegetation density.



break in slope, change in particle size distribution.

- Rapid Ordinary High W	/ater Mark (OHWM) 1.0
Project	21028 Hoffman Falls Wetland Delineation
ID	373733
Survey Date	07/26/2023
User	Josh Bean
General Information	
Project ID #	93-ST004A
Site Name	Hoffman Falls
Date	07/26/2023
Time	11:40 AM
Location	
Latitude	42.93717017
Longitude	-75.73058367
Datum	NAD83/2011
Investigator(s)	RN RS
Step 1: Site overview from re	mote and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	No recent rain. Steep sloped stream
Step 2: Site conditions during	g field assessment
Describe Site Condition	Steep rockfall stream
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	X
Other break in slope indicators	
Shelving	
Channel bar	
Instream bedforms and other bedload transport evidence	
Secondary channels	
Sediment Indicators Soil development	
Changes in character of soil	
Mudcracks	

Changes in particle-sized distribution	Present
Changes in particle-sized distribution Indicator Location	X
Other changes in particle- sized distribution	transition
transition from	Boulder to silt
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	X
General Vegetation Change	forbs to:
forbs to:	deciduous trees
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	
Ancillary Indicators	
Ancillary Indicators Ancillary Indicators	Wracking/presence of organic litter:
	Wracking/presence of organic litter:
Ancillary Indicators	
Ancillary Indicators Wracking Indicator Location	x No
Ancillary Indicators Wracking Indicator Location Other observed indicators?	x No
Ancillary Indicators Wracking Indicator Location Other observed indicators? Step 4: Additional Information Is additional information needed to support this	x No n
Ancillary Indicators Wracking Indicator Location Other observed indicators? Step 4: Additional Information Is additional information needed to support this determination?	x No n
Ancillary Indicators Wracking Indicator Location Other observed indicators? Step 4: Additional Information Is additional information needed to support this determination? Step 5: Rationale Describe rationale for	x No No
Ancillary Indicators Wracking Indicator Location Other observed indicators? Step 4: Additional Information Is additional information needed to support this determination? Step 5: Rationale Describe rationale for location of OHWM Additional observations or	x No No
Ancillary Indicators Wracking Indicator Location Other observed indicators? Step 4: Additional Information Is additional information needed to support this determination? Step 5: Rationale Describe rationale for location of OHWM Additional observations or notes	x No No



break in slope, change in particle size distribution, change in vegetation type and density.



Break in slope, change in particle size.

- Rapid Ordinary High Wa	ater Mark (OHWM) 1.0
Project	21028 Hoffman Falls Wetland Delineation
ID	373734
Survey Date	07/27/2023
User	Josh Bean
General Information	
Project ID #	93-ST005
Site Name	Hoffman Falls
Date	07/27/2023
Time	09:41 AM
Location	
Latitude	42.9224341
Longitude	-75.6872008
Investigator(s)	RS, GH
Step 1: Site overview from rer	note and online resources
Check boxes for online resources used to evaluate site	LiDAR, climatic data, geologic maps, land use maps, other, satellite imagery, topographic maps
Other	Natural Resource Mapper
Describe land use and flow conditions from online resources.	Recent precipitation within past 24 hours. Fish present in stream.
Step 2: Site conditions during	field assessment
Describe Site Condition	Larger cobbles in stream than upslope where it is clay loam.
Step 3 Indicators	
Geomorphic Indicators	
Break in slope	Present
Break in Slope Indicator Location	X
Other break in slope indicators	
Shelving	Present
Shelving Indicator Location	X
Other Shelving Indicators	shelf at top of bank
shelf at top of bank Indicator Location	X
Channel bar	
Instream bedforms and other bedload transport evidence	
Secondary channels	
Sediment Indicators	

Soil development	
Changes in character of soil	
Mudcracks	
Changes in particle-sized distribution	Present
Changes in particle-sized distribution Indicator Location	X
Other changes in particle- sized distribution	transition
transition from	Cobble to clay loam
Vegetation Indicators	
Change in vegetation type and/or density	Present
Vegetation Indicator Location	X
General Vegetation Change	vegetation absent to:
vegetation absent to:	forbs
Vegetation matted down and/or bent:	
Exposed roots below intact soil layer:	
Ancillary Indicators	
Ancillary Indicators	
Other observed indicators?	No
Step 4: Additional Information	1
ls additional information needed to support this determination?	Yes
Describe and attach information to datasheet:	Fish in stream
Step 5: Rationale	
Describe rationale for location of OHWM	OHWM occurs at break in slope, where particles change from cobble to clay loam, and where shelving shows water consistently moves through stream, gauging banks.
Additional observations or notes	
Photos	
Photo log attached?	Yes





Upstream and shelving

substrate; gravel



Downstream and absent vegetation



Undercut banks

21028 Hoffman Falls Stre	am Scoring Data Form
Project	21028 Hoffman Falls
ID	185270
Survey Date	10/04/2021
User	Megan Aubertine
Town/County/State	Town of Eaton, Madison County, New York
Investigator(s)	MA, KC
Stream Delineation ID	01-ST003
Latitude, Longitude	
Latitude	42.92054378
Longitude	-75.65423041
Current Precipitation	Rain
Precipitation in Past 48 Hours	Rain
General Characteristics	
NYSDEC Mapped Stream	No
Drainage Ditch	No
Surface Water Depth at Thalweg (Inches)	3
Stream Gradient	Moderate (6-11%)
Substrate	Cobble, Gravel, Silt/Clay (No grit)
OHWM width for stream reach (feet)	2 to 5.5
Geomorphology	
Continuity of channel bed and bank	Strong (3)
Sinuosity of channel along thalweg	Moderate (2)
In Channel Structures	Absent (0)
Particle Size of Stream Substrate	Strong (3)
Active/Relic Floodplain	Absent (0)
Depositional Bars or Benches	Absent (0)
Recent Alluvial Deposits	Absent (0)
Are Headcuts present	Moderate (2)
Grade Control	Weak (0.5)
Natural Valley	Strong (1.5)
Second or Greater Order Channel	No (0)

Hydrology	
Presence of Baseflow	Weak (1)
Iron Oxidizing Bacteria	Absent (0)
Leaf Litter	Weak (1)
Sediment on Plants or Debris	Absent (0)
Organic Debris Lines or Piles	Absent (0)
Soil-based evidence of high water table	No (0)
Biology	
Fibrous Roots in Streambed	Absent (3)
Rooted Upland Plants in Streambed	Absent (3)
Aquatic Macroinvertebrates	Absent (0)
Aquatic Mollusks	Absent (0)
Fish	Absent (0)
Crayfish	Absent (0)
Amphibians	Absent (0)
Algae	Absent (0)
Wetland Plants in Streambed	Other (0)
Stream Type Determination	
Total Score	20
Stream Determination	Intermittent (≥19)
Photos and Notes	
Notes	

21028 Hoffman Falls Stre	am Scoring Data Form
Project	21028 Hoffman Falls
ID	185260
Survey Date	10/05/2021
User	Megan Aubertine
Town/County/State	Town of Eaton, Madison County, New York
Investigator(s)	MA, KC
Stream Delineation ID	01-ST007
Latitude, Longitude	
Latitude	42.91429682
Longitude	-75.6404014
Current Precipitation	Rain
Precipitation in Past 48 Hours	Rain
General Characteristics	
NYSDEC Mapped Stream	No
Drainage Ditch	No
Surface Water Depth at Thalweg (Inches)	6
Stream Gradient	Gentle (0-5%)
Substrate	Sand (Gritty feel), Silt/Clay (No grit)
OHWM width for stream reach (feet)	4
Geomorphology	
Continuity of channel bed and bank	Strong (3)
Sinuosity of channel along thalweg	Strong (3)
In Channel Structures	Absent (0)
Particle Size of Stream Substrate	Weak (1)
Active/Relic Floodplain	Weak (1)
Depositional Bars or Benches	Absent (0)
Recent Alluvial Deposits	Absent (0)
Are Headcuts present	Absent (0)
Grade Control	Strong (1.5)
Natural Valley	Weak (0.5)
Second or Greater Order Channel	No (0)
Hydrology	
Presence of Baseflow	Strong (3)
Iron Oxidizing Bacteria	Absent (0)

Leaf Litter	Absent (1.5)
Sediment on Plants or Debris	Absent (0)
Organic Debris Lines or Piles	Absent (0)
Soil-based evidence of high water table	Yes (3)
Biology	
Fibrous Roots in Streambed	Weak (2)
Rooted Upland Plants in Streambed	Absent (3)
Aquatic Macroinvertebrates	Absent (0)
Aquatic Mollusks	Absent (0)
Fish	Absent (0)
Crayfish	Absent (0)
Amphibians	Absent (0)
Algae	Absent (0)
Wetland Plants in Streambed	FACW (0.75)
Stream Type Determination	
Total Score	22.25
Stream Determination	Intermittent (≥19)
Photos and Notes	
Notes	

21028 Hoffman Falls Stre	am Scoring Data Form
Project	21028 Hoffman Falls
ID	185269
Survey Date	10/05/2021
User	Megan Aubertine
Town/County/State	Town of Eaton, Madison County, New York
Investigator(s)	MA, KC
Stream Delineation ID	01-ST004
Latitude, Longitude	
Latitude	42.92165007
Longitude	-75.64547534
Current Precipitation	Rain
Precipitation in Past 48 Hours	Rain
General Characteristics	
NYSDEC Mapped Stream	No
Drainage Ditch	No
Surface Water Depth at Thalweg (Inches)	1
Stream Gradient	Gentle (0-5%)
Substrate	Gravel, Silt/Clay (No grit)
OHWM width for stream reach (feet)	1.5
Geomorphology	
Continuity of channel bed and bank	Moderate (2)
Sinuosity of channel along thalweg	Weak (1)
In Channel Structures	Absent (0)
Particle Size of Stream Substrate	Moderate (2)
Active/Relic Floodplain	Absent (0)
Depositional Bars or Benches	Absent (0)
Recent Alluvial Deposits	Absent (0)
Are Headcuts present	Absent (0)
Grade Control	Moderate (1)
Natural Valley	Absent (0)
Second or Greater Order Channel	No (0)
Hydrology	
Presence of Baseflow	Moderate (2)
Iron Oxidizing Bacteria	Absent (0)

Leaf Litter	Absent (1.5)
Sediment on Plants or Debris	Absent (0)
Organic Debris Lines or Piles	Absent (0)
Soil-based evidence of high water table	No (0)
Biology	
Fibrous Roots in Streambed	Weak (2)
Rooted Upland Plants in Streambed	Absent (3)
Aquatic Macroinvertebrates	Absent (0)
Aquatic Mollusks	Absent (0)
Fish	Absent (0)
Crayfish	Absent (0)
Amphibians	Absent (0)
Algae	Absent (0)
Wetland Plants in Streambed	FACW (0.75)
Stream Type Determination	
Total Score	15.25
Stream Determination	Ephemeral (<19)
Photos and Notes	
Notes	Stream abruptly ends just upstream of culvert.

21028 Hoffman Falls Stre	am Scoring Data Form
Project	21028 Hoffman Falls
ID	185261
Survey Date	10/06/2021
User	Megan Aubertine
Town/County/State	Town of Eaton, Madison County, New York
Investigator(s)	MA, KC
Stream Delineation ID	01-ST012
Latitude, Longitude	
Latitude	42.925888
Longitude	-75.63377189
Current Precipitation	None
Precipitation in Past 48 Hours	Rain
General Characteristics	
NYSDEC Mapped Stream	Yes
NYSDEC mapped Classification	C
Drainage Ditch	No
Surface Water Depth at Thalweg (Inches)	12
Stream Gradient	Gentle (0-5%)
Substrate	Cobble, Gravel, Silt/Clay (No grit)
OHWM width for stream reach (feet)	3-10
Geomorphology	
Continuity of channel bed and bank	Strong (3)
Sinuosity of channel along thalweg	Strong (3)
In Channel Structures	Strong (3)
Particle Size of Stream Substrate	Strong (3)
Active/Relic Floodplain	Absent (0)
Depositional Bars or Benches	Absent (0)
Recent Alluvial Deposits	Absent (0)
Are Headcuts present	Moderate (2)
Grade Control	Moderate (1)
Natural Valley	Weak (0.5)
Second or Greater Order Channel	No (0)
Hydrology	
Presence of Baseflow	Strong (3)

Iron Oxidizing Bacteria	Weak (1)
Leaf Litter	Absent (1.5)
Sediment on Plants or Debris	Absent (0)
Organic Debris Lines or Piles	Absent (0)
Soil-based evidence of high water table	Yes (3)
Biology	
Fibrous Roots in Streambed	Absent (3)
Rooted Upland Plants in Streambed	Absent (3)
Aquatic Macroinvertebrates	Strong (3)
Aquatic Mollusks	Absent (0)
Fish	Moderate (1)
Crayfish	Absent (0)
Amphibians	Weak (0.5)
Algae	Strong (1.5)
Wetland Plants in Streambed	FACW (0.75)
Stream Type Determination	
Total Score	36.75
Stream Determination	Perennial (≥30)
Photos and Notes	
Notes	

&%\$&, Hoffman Falls Stre	am Scoring Data Form
Project	&%\$&, ` <cza td="" u`g<="" ub`:=""></cza>
ID	185262
Survey Date	10/06/2021
User	Megan Aubertine
Town/County/State	Town of Eaton, Madison County, New York
Investigator(s)	MA
Stream Delineation ID	01-ST011
Latitude, Longitude	
Latitude	42.91840664
Longitude	-75.63525289
Current Precipitation	None
Precipitation in Past 48 Hours	Rain
General Characteristics	
NYSDEC Mapped Stream	No
Drainage Ditch	No
Surface Water Depth at Thalweg (Inches)	1
Stream Gradient	Gentle (0-5%)
Substrate	Cobble, Gravel, Silt/Clay (No grit)
OHWM width for stream reach (feet)	2-6
Geomorphology	
Continuity of channel bed and bank	Moderate (2)
Sinuosity of channel along thalweg	Weak (1)
In Channel Structures	Absent (0)
Particle Size of Stream Substrate	Strong (3)
Active/Relic Floodplain	Absent (0)
Depositional Bars or Benches	Absent (0)
Recent Alluvial Deposits	Absent (0)
Are Headcuts present	Weak (1)
Grade Control	Weak (0.5)
Natural Valley	Moderate (1)
Second or Greater Order Channel	No (0)
Hydrology	
Presence of Baseflow	Weak (1)
Iron Oxidizing Bacteria	Absent (0)

Leaf Litter	Moderate (0.5)
Sediment on Plants or Debris	Absent (0)
Organic Debris Lines or Piles	Absent (0)
Soil-based evidence of high water table	No (0)
Biology	
Fibrous Roots in Streambed	Absent (3)
Rooted Upland Plants in Streambed	Absent (3)
Aquatic Macroinvertebrates	Absent (0)
Aquatic Mollusks	Absent (0)
Fish	Absent (0)
Crayfish	Absent (0)
Amphibians	Absent (0)
Algae	Absent (0)
Wetland Plants in Streambed	Other (0)
Stream Type Determination	
Total Score	16
Stream Determination	Ephemeral (<19)
Photos and Notes	
Notes	

21028 Hoffman Falls Stre	am Scoring Data Form
Project	21028 Hoffman Falls
ID	185264
Survey Date	10/06/2021
User	Megan Aubertine
Town/County/State	Town of Eaton, Madison County, New York
Investigator(s)	MA, KC
Stream Delineation ID	01-ST010
Latitude, Longitude	
Latitude	42.91814608
Longitude	-75.63486549
Current Precipitation	None
Precipitation in Past 48 Hours	Rain
General Characteristics	
NYSDEC Mapped Stream	No
Drainage Ditch	No
Surface Water Depth at Thalweg (Inches)	1
Stream Gradient	Steep (>12%)
Substrate	Cobble, Gravel, Silt/Clay (No grit)
OHWM width for stream reach (feet)	2-8
Geomorphology	
Continuity of channel bed and bank	Strong (3)
Sinuosity of channel along thalweg	Weak (1)
In Channel Structures	Absent (0)
Particle Size of Stream Substrate	Strong (3)
Active/Relic Floodplain	Absent (0)
Depositional Bars or Benches	Absent (0)
Recent Alluvial Deposits	Absent (0)
Are Headcuts present	Weak (1)
Grade Control	Moderate (1)
Natural Valley	Moderate (1)
Second or Greater Order Channel	No (0)
Hydrology	
Presence of Baseflow	Weak (1)
Iron Oxidizing Bacteria	Absent (0)

Leaf Litter	Moderate (0.5)
Sediment on Plants or Debris	Absent (0)
Organic Debris Lines or Piles	Weak (0.5)
Soil-based evidence of high water table	No (0)
Biology	
Fibrous Roots in Streambed	Absent (3)
Rooted Upland Plants in Streambed	Absent (3)
Aquatic Macroinvertebrates	Absent (0)
Aquatic Mollusks	Absent (0)
Fish	Absent (0)
Crayfish	Absent (0)
Amphibians	Absent (0)
Algae	Absent (0)
Wetland Plants in Streambed	FACW (0.75)
Stream Type Determination	
Total Score	18.75
Stream Determination	Ephemeral (<19)
Photos and Notes	
Notes	Flows into St09

21028 Hoffman Falls Stre	am Scoring Data Form
Project	21028 Hoffman Falls
ID	185265
Survey Date	10/06/2021
User	Megan Aubertine
Town/County/State	Town of Eaton, Madison County, New York
Investigator(s)	MA, KC
Stream Delineation ID	01-ST009
Latitude, Longitude	
Latitude	42.91903625
Longitude	-75.63428476
Current Precipitation	None
Precipitation in Past 48 Hours	Rain
General Characteristics	
NYSDEC Mapped Stream	No
Drainage Ditch	No
Surface Water Depth at Thalweg (Inches)	4
Stream Gradient	Steep (>12%)
Substrate	Cobble, Gravel, Silt/Clay (No grit)
OHWM width for stream reach (feet)	5
Geomorphology	
Continuity of channel bed and bank	Strong (3)
Sinuosity of channel along thalweg	Moderate (2)
In Channel Structures	Strong (3)
Particle Size of Stream Substrate	Strong (3)
Active/Relic Floodplain	Absent (0)
Depositional Bars or Benches	Absent (0)
Recent Alluvial Deposits	Absent (0)
Are Headcuts present	Moderate (2)
Grade Control	Moderate (1)
Natural Valley	Strong (1.5)
Second or Greater Order Channel	No (0)
Hydrology	
Presence of Baseflow	Moderate (2)
Iron Oxidizing Bacteria	Absent (0)
5	• •

Leaf Litter	Moderate (0.5)
Sediment on Plants or Debris	Absent (0)
Organic Debris Lines or Piles	Weak (0.5)
Soil-based evidence of high water table	No (0)
Biology	
Fibrous Roots in Streambed	Absent (3)
Rooted Upland Plants in Streambed	Absent (3)
Aquatic Macroinvertebrates	Weak (1)
Aquatic Mollusks	Absent (0)
Fish	Absent (0)
Crayfish	Absent (0)
Amphibians	Absent (0)
Algae	Absent (0)
Wetland Plants in Streambed	Other (0)
Stream Type Determination	
Total Score	25.5
Stream Determination	
Photos and Notes	
Notes	

Appendix C

Photo Documentation

Photo 1

Sheet 1 of 11

Representative photo of palustrine emergent (PEM) wetlands

Photo 2

Representative photo of palustrine emergent (PEM) wetlands

Hoffman Falls Wind Project

Towns of Fenner, Nelson, Eaton, and Smithfield, Madison County, New York

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EDR_
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Photo 3

Sheet 2 of 11

Representative photo of palustrine emergent (PEM) wetlands

Photo 4

Representative photo of typical upland field found adjacent to PEM wetlands

Hoffman Falls Wind Project

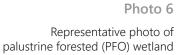
Towns of Fenner, Nelson, Eaton, and Smithfield, Madison County, New York





Towns of Fenner, Nelson, Eaton, and Smithfield, Madison County, New York

Wetland and Stream Delineation Report



Representative photo of palustrine forested (PFO) wetland





Photo 5

Photo 7

Representative photo of typical upland forest found adjacent to PFO wetland





Photo 8

Representative photo of typical palustrine scrub-shrub (PSS) wetland

Hoffman Falls Wind Project

Towns of Fenner, Nelson, Eaton, and Smithfield, Madison County, New York



Prepared October 2023

Photo 9

Representative photo of typical palustrine scrub-shrub (PSS) wetland

Photo 10

Representative photo of typical palustrine scrub-shrub (PSS) wetland

Hoffman Falls Wind Project

Towns of Fenner, Nelson, Eaton, and Smithfield, Madison County, New York









Photo 11

Sheet 6 of 11

Representative photo of typical upland scrub-shrub found adjacent to PSS wetlands

Photo 12

Representative photo of palustrine open water (POW) wetland

Hoffman Falls Wind Project

Towns of Fenner, Nelson, Eaton, and Smithfield, Madison County, New York



Photo 13

Representative photo of palustrine open water (POW) wetland

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Towns of Fenner, Nelson, Eaton, and Smithfield, Madison County, New York

Wetland and Stream Delineation Report

Photo 14

Representative photo of typical upland found adjacent to POW wetland







Photo 15

Sheet 8 of 11

Representative photo of typical intermittent stream (R4)

Photo 16



Representative photo of typical intermittent stream (R4)

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Photo 17

Sheet 9 of 11

Representative photo of typical perennial stream (R3)

Photo 18

Representative photo of typical perennial stream (R3)



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Photo 19

Sheet 10 of 11

Representative photo of typical ephemeral stream (R6)

Photo 20

Representative photo of typical ephemeral stream (R6)

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Photo 21

Representative photo of typical upland found on site

Photo 22 Representative photo of typical upland found on site

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