

APPENDIX F

MAINE AMPHIBIAN AND REPTILE ATLAS SITE CARDS

INSTRUCTIONS: Complete 1 form per visit. Grayed sections are for Heritage office use only.

RARE ANIMAL SURVEY FORM

MDIFW
650 State St.
Bangor, ME
04401

Completed By: David Brenneman Date: 8/27/2010 Review by (MDIFW): _____ Date: _____

SURVEYSITE: <u>Canton Mountain</u>		TOWNSHIP: <u>Dixfield, ME</u>	
NEW EO (check):	UPDATE (check):	(EO NUM: _____)	DELORME PAGE & GRID (e.g. 04B2): <u>19E3</u>

ELEMENT INFORMATION

Common Name: <u>Northern Spring Salamander</u>	Scientific Name: <u>Gyrinophilus p. porphyriticus</u>
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SURVEYOR INFORMATION

Survey date (yyyy – mm – dd): <u>2010-08-12</u>	Time from: <u>1700</u>	To: <u>1800</u>	am or pm	Sourcecode: <u>F_____</u>
Surveyors (principal surveyor first, include first & last name and contact information): <u>Rodney Kelshaw (207) 944-6776, Dawn Morgan (802) 793-5807</u>				

IDENTIFICATION

Photograph/slide taken? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes & repository: _____
Specimen collected? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Specimen # and repository: _____
Identification problems? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Explain: _____

ELEMENT OCCURRENCE INFORMATION

- Type of Observation: sight vocalization handled collected other (explain): _____
- Observed Abundance (incl. age and sex): Single adult found
- Estimated Abundance (and basis for estimate): _____
- Evidence of Reproduction and/or Other Behaviors: _____
- Misc. Notes: _____

HABITAT DESCRIPTION

Describe the specific habitat or micro-habitats where this animal occurs. Convey a mental image of the habitat and its features including: land forms, aquatic features, vegetation, slope, aspect, soils, associated plant and animal species, natural disturbances.

Northern Spring Salamander (NSS) found approximately 50' south of the confluence of Ludden Brook and Fletcher Brook, in Ludden Brook. Stream habitat consisted of fast moving water over cobble and boulder sized rock. Some outcrops of bedrock throughout the stream. Little to no vegetation found within the brook channel. Bank to bank of the brook averages around 40' wide in most places. Adjacent areas of the stream consist of uplands with some small areas of floodplain wetland. A forested overstory dominates this area.

THREATS AND/OR MANAGEMENT CONCERNS: There is a residence and small farm a short distance south along the stream from the location where the NSS was found. The farm has a few cleared fields that abut part of the brook. Within +/-200' west there is a gravel road (Ludden Lane) that parallels the brook and runs north/south in this area. The road is primarily used for forestry (logging) access of Canton Mountain.

DIRECTIONS

Provide detailed directions to this element occurrence (versus the survey site) using a readily locatable and relatively permanent landmark as a starting point. Refer to nearby landmarks, roads and villages. Include distances, compass directions (North, South etc.).

From the intersection of Ludden Lane and Canton Point Road follow Ludden Lane north for approximately one mile. Around .75 miles you will cross a small logging bridge over Ludden Brook and then a small residence on the west side of Ludden Lane. If you reach another logging bridge and a small cemetery you have traveled too far north. At the one mile mark you will travel on foot approximately 200' west from Ludden Lane. You should be at the confluence of Fletcher Brook and Ludden Brook. About 50' south of this point is the occurrence of the Northern Spring Salamander.

OWNER: (If known, indicate name of owner(s), address and phone number): _____

LOCATION of OBSERVATION

Source 1: 393539.297 UTM-E / Lat 4928852.327 UTM-N / Long **NAD 83 / 27** (circle one)

Source 2: _____ UTM-E / Lat _____ UTM-N / Long **NAD 83 / 27** (circle one)

Coordinates / polygon provide location of:

Animal/habitat feature(s) **OR** Observer--DISTANCE / DIRECTION to animal/habitat feature: _____ meters / feet at _____ °

GPS Unit Information

Differentially corrected Unit accuracy for location: ± 0.4 m # of Satellites = 7 2D / 3D

Unit Model Trimble Geo XH

LOCATION SKETCH (or attach aerial photograph/photocopied topo) Sketch fine details of an overhead view of this observation that may not be apparent on a topo map. Indicate landmarks, important features, route taken, animal/habitat observed, disturbances & threats, scale, and north. Include GPS location(s).

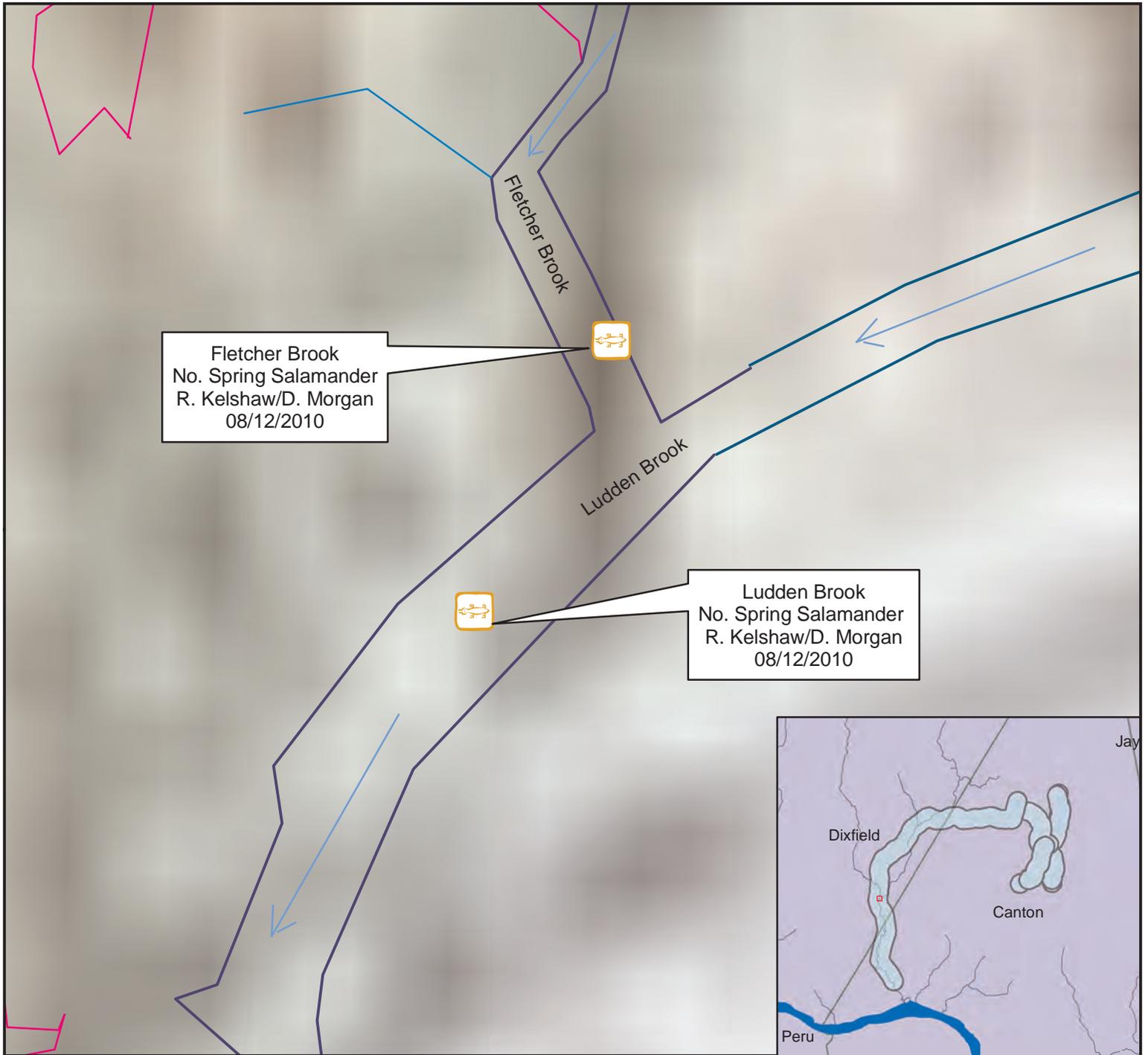
See drawing on next page.

<u>DIGITIZED IN GIS</u>	<u>HAND-DRAWN</u>
Scale digitized at = 1: _____ <input type="checkbox"/> 1:24,000 topographic maps <input type="checkbox"/> Orthophoto (pixel size = _____ m / ft), date = _____ <input type="checkbox"/> Other: _____	Scale drawn at = 1: _____ <input type="checkbox"/> Topographic map (scale = 1: _____) <input type="checkbox"/> Aerial imagery <input type="checkbox"/> Other: _____ scale = 1: _____ date = _____

OVERALL LOCATION ACCURACY: including uncertainty about where the animal/habitat feature was and mapping accuracy related to the GPS unit used, resolution of reference information like topographic maps or aerial photos used, etc.:

± _____ meters / feet / kilometers / miles

Timberwinds - Spring Salamander Assessment 2010



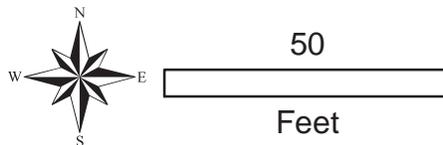
Legend

 North Spring Salamander Found

Boyle 2010 Streams

Stream Type

-  Intermittent
-  Perennial
-  Wetland Boundary



Project: Timberwinds; Canton, Maine

Drawing Date: September 2010

Notes:



Boyle Associates
Environmental Consultants
Mailing Address:
25 Dundee Road
Gorham, Maine 04038

phone: 207.591.5220

INSTRUCTIONS: Complete 1 form per visit. Grayed sections are for Heritage office use only.

RARE ANIMAL SURVEY FORM

MDIFW
650 State St.
Bangor, ME
04401

Completed By: David Brenneman Date: 8/27/2010 Review by (MDIFW): _____ Date: _____

SURVEYSITE: <u>Canton Mountain - Timberwinds Project</u>		TOWNSHIP: <u>Dixfield, ME</u>	
NEW EO (check):	UPDATE (check):	(EO NUM: _____)	DELORME PAGE & GRID (e.g. 04B2): <u>19E3</u>

ELEMENT INFORMATION

Common Name: <u>Northern Spring Salamander</u>	Scientific Name: <u>Gyrinophilus p. porphyriticus</u>
--	---

SURVEYOR INFORMATION

Survey date (yyyy – mm – dd): <u>2010-08-12</u>	Time from: <u>1700</u>	To: <u>1800</u>	am or <u>pm</u>	Sourcecode: <u>F_____</u>
Surveyors (principal surveyor first, include first & last name and contact information): <u>Rodney Kelshaw (207) 944-6776, Dawn Morgan (802) 793-5807</u>				

IDENTIFICATION

Photograph/slide taken? Yes <u>X</u> No _____	Notes & repository: _____
Specimen collected? Yes _____ No <u>X</u>	Specimen # and repository: _____
Identification problems? Yes _____ No <u>X</u>	Explain: _____

ELEMENT OCCURRENCE INFORMATION

- Type of Observation: sight X vocalization _____ handled X collected _____ other (explain): _____
- Observed Abundance (incl. age and sex): Single adult found
- Estimated Abundance (and basis for estimate): 1
- Evidence of Reproduction and/or Other Behaviors: NA
- Misc. Notes: _____

HABITAT DESCRIPTION

Describe the specific habitat or micro-habitats where this animal occurs. Convey a mental image of the habitat and its features including: land forms, aquatic features, vegetation, slope, aspect, soils, associated plant and animal species, natural disturbances.

Northern Spring Salamander (NSS) found approximately 25' northwest of the confluence of Ludden Brook and Fletcher Brook, in Fletcher Brook. Most of Fletcher Brook is deep and slower moving above it's confluence with Ludden Brook. There is not much suitable habitat within Fletcher Brook. Stream habitat within a few hundred feet of entering Ludden consisted of fast moving water over cobble and boulder sized rock. Little to no vegetation found within the brook channel. Bank to bank of the brook averages around 30' wide in most places. Adjacent areas of the stream consist of uplands with some small areas of floodplain wetland. A softwood-forested overstory dominates this area.

THREATS AND/OR MANAGEMENT CONCERNS: Within +/-200' west there is a gravel road (Ludden Lane) that parallels the brook and runs north/south in this area. The road is primarily used for forestry (logging) access of Canton Mountain. There is a timber bridge built over Fletcher Brook about 100' south of a cemetery on Ludden Lane.

DIRECTIONS

Provide detailed directions to this element occurrence (versus the survey site) using a readily locatable and relatively permanent landmark as a starting point. Refer to nearby landmarks, roads and villages. Include distances, compass directions (North, South etc.).

From the intersection of Ludden Lane and Canton Point Road follow Ludden Lane north for approximately one mile. Around .75 miles you will cross a small logging bridge over Ludden Brook and then a small residence on the west side of Ludden Lane. If you reach another logging bridge and a small cemetery you have traveled too far north. At the one mile mark you will travel on foot approximately 200' west from Ludden Lane. You should be at the confluence of Fletcher Brook and Ludden Brook. About 20' northwest of this point is the occurrence of the Northern Spring Salamander.

OWNER: (If known, indicate name of owner(s), address and phone number): _____

LOCATION of OBSERVATION

Source 1: 393549.088 UTM-E / Lat 4928871.683 UTM-N / Long **NAD 83 / 27** (circle one)

Source 2: _____ UTM-E / Lat _____ UTM-N / Long **NAD 83 / 27** (circle one)

Coordinates / polygon provide location of:

Animal/habitat feature(s) **OR** Observer--DISTANCE / DIRECTION to animal/habitat feature: _____ meters / feet at _____ °

GPS Unit Information

Differentially corrected Unit accuracy for location: ± 1.4 m # of Satellites = 6 2D / 3D

Unit Model Trimble Geo XH

LOCATION SKETCH (or attach aerial photograph/photocopied topo) Sketch fine details of an overhead view of this observation that may not be apparent on a topo map. Indicate landmarks, important features, route taken, animal/habitat observed, disturbances & threats, scale, and north. Include GPS location(s).

See drawing on next page.

DIGITIZED IN GIS

- Scale digitized at = 1: _____
- 1:24,000 topographic maps
- Orthophoto (pixel size = _____ m / ft), date = _____
- Other: _____

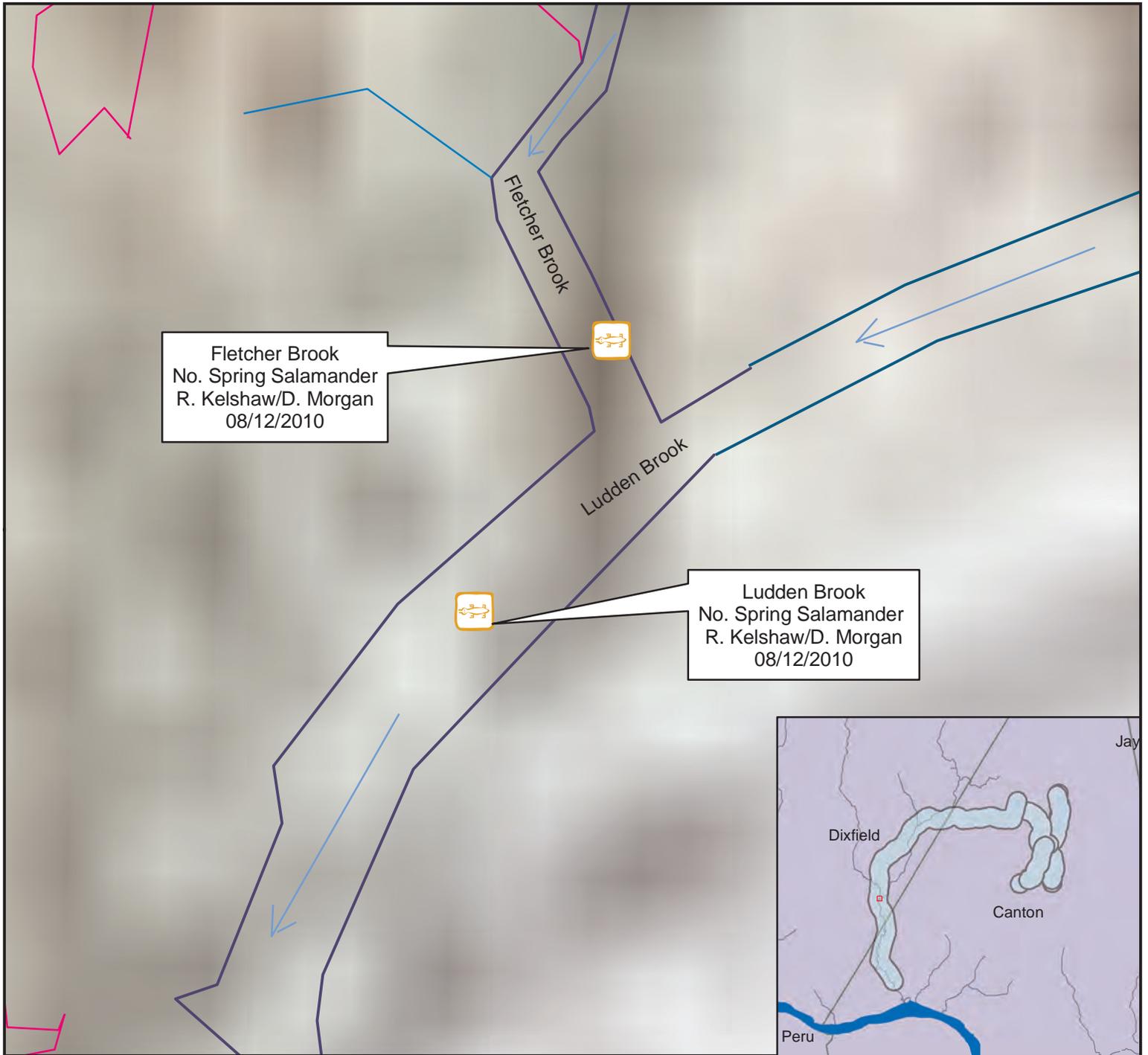
HAND-DRAWN

- Scale drawn at = 1: _____
- Topographic map (scale = 1: _____)
- Aerial imagery Other: _____
- scale = 1: _____
- date = _____

OVERALL LOCATION ACCURACY: including uncertainty about where the animal/habitat feature was and mapping accuracy related to the GPS unit used, resolution of reference information like topographic maps or aerial photos used, etc.:

± _____ meters / feet / kilometers / miles

Timberwinds - Spring Salamander Assessment 2010



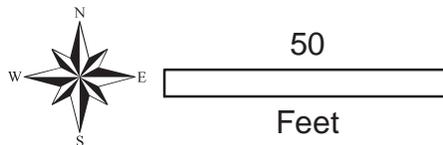
Legend

 North Spring Salamander Found

Boyle 2010 Streams

Stream Type

-  Intermittent
-  Perennial
-  Wetland Boundary



Project: Timberwinds; Canton, Maine

Drawing Date: September 2010

Notes:



Boyle Associates
Environmental Consultants
Mailing Address:
25 Dundee Road
Gorham, Maine 04038

phone: 207.591.5220

INSTRUCTIONS: Complete 1 form per visit. Grayed sections are for Heritage office use only.

RARE ANIMAL SURVEY FORM

MDIFW
650 State St.
Bangor, ME
04401

Completed By: David Brenneman Date: 8/27/2010 Review by (MDIFW): _____ Date: _____

SURVEYSITE: <u>Canton Mountain</u>		TOWNSHIP: <u>Dixfield, ME</u>	
NEW EO (check):	UPDATE (check):	(EO NUM: _____)	DELORME PAGE & GRID (e.g. 04B2): <u>19E4</u>

ELEMENT INFORMATION

Common Name: <u>Northern Spring Salamander</u>	Scientific Name: <u>Gyrinophilus p. porphyriticus</u>
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SURVEYOR INFORMATION

Survey date (yyyy – mm – dd): <u>2010-08-12</u>	Time from: <u>1700</u>	To: <u>1800</u>	am or pm	Sourcecode: <u>F_____</u>
Surveyors (principal surveyor first, include first & last name and contact information): <u>Richard Jordan (207) 671-2760, Dawn Morgan (802) 793-5807</u>				

IDENTIFICATION

Photograph/slide taken? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes & repository: _____
Specimen collected? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Specimen # and repository: _____
Identification problems? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Explain: _____

ELEMENT OCCURRENCE INFORMATION

1. Type of Observation: sight vocalization handled collected other (explain): _____
2. Observed Abundance (incl. age and sex): Single adult found
3. Estimated Abundance (and basis for estimate): _____
4. Evidence of Reproduction and/or Other Behaviors: _____
5. Misc. Notes: _____

HABITAT DESCRIPTION

Describe the specific habitat or micro-habitats where this animal occurs. Convey a mental image of the habitat and its features including: land forms, aquatic features, vegetation, slope, aspect, soils, associated plant and animal species, natural disturbances.

Northern Spring Salamander (NSS) found approximately 5' south of the confluence of Ludden Brook and a tributary (CASBW8). NSS found in Ludden Brook. Stream habitat consisted of fast moving water over cobble and boulder sized rock and a sand/gravel substrate. Some outcrops of bedrock throughout the stream. Little to no vegetation found within the brook channel. Bank to bank of the brook averages around 30' wide in most places. Adjacent areas of the stream consist of uplands with some small areas of floodplain wetland. A mixed forested overstory dominates this area.

THREATS AND/OR MANAGEMENT CONCERNS: There is a gravel road (Ludden Lane) that parallels the brook and runs east/west in this area. The road is primarily used for forestry (logging) access of Canton Mountain.

DIRECTIONS

Provide detailed directions to this element occurrence (versus the survey site) using a readily locatable and relatively permanent landmark as a starting point. Refer to nearby landmarks, roads and villages. Include distances, compass directions (North, South etc.).

From the intersection of Ludden Lane and Canton Point Road follow Ludden Lane north for approximately one mile. Around .75 miles you will cross a small logging bridge over Ludden Brook and then a small residence on the west side of Ludden Lane. Continuing north you will pass a small cemetery on the west side of Ludden Lane. About 1000' north of the cemetery the road forks and you want to bear right at this intersection. Continue for approximately another mile until you reach another intersection in the road. The NSS occurrence is approximately 100' southwest of this intersection.

OWNER: (If known, indicate name of owner(s), address and phone number): _____

LOCATION of OBSERVATION

Source 1: 394300.107 UTM-E / Lat 4930118.842 UTM-N / Long **NAD 83 / 27** (circle one)

Source 2: _____ UTM-E / Lat _____ UTM-N / Long **NAD 83 / 27** (circle one)

Coordinates / polygon provide location of:

Animal/habitat feature(s) **OR** Observer--DISTANCE / DIRECTION to animal/habitat feature: _____ meters / feet at _____ °

GPS Unit Information

Differentially corrected Unit accuracy for location: ± 0.4 m # of Satellites = 6 2D / 3D

Unit Model Trimble Geo XH

LOCATION SKETCH (or attach aerial photograph/photocopied topo) Sketch fine details of an overhead view of this observation that may not be apparent on a topo map. Indicate landmarks, important features, route taken, animal/habitat observed, disturbances & threats, scale, and north. Include GPS location(s).

See drawing on next page.

DIGITIZED IN GIS

- Scale digitized at = 1: _____
- 1:24,000 topographic maps
- Orthophoto (pixel size = _____ m / ft), date = _____
- Other: _____

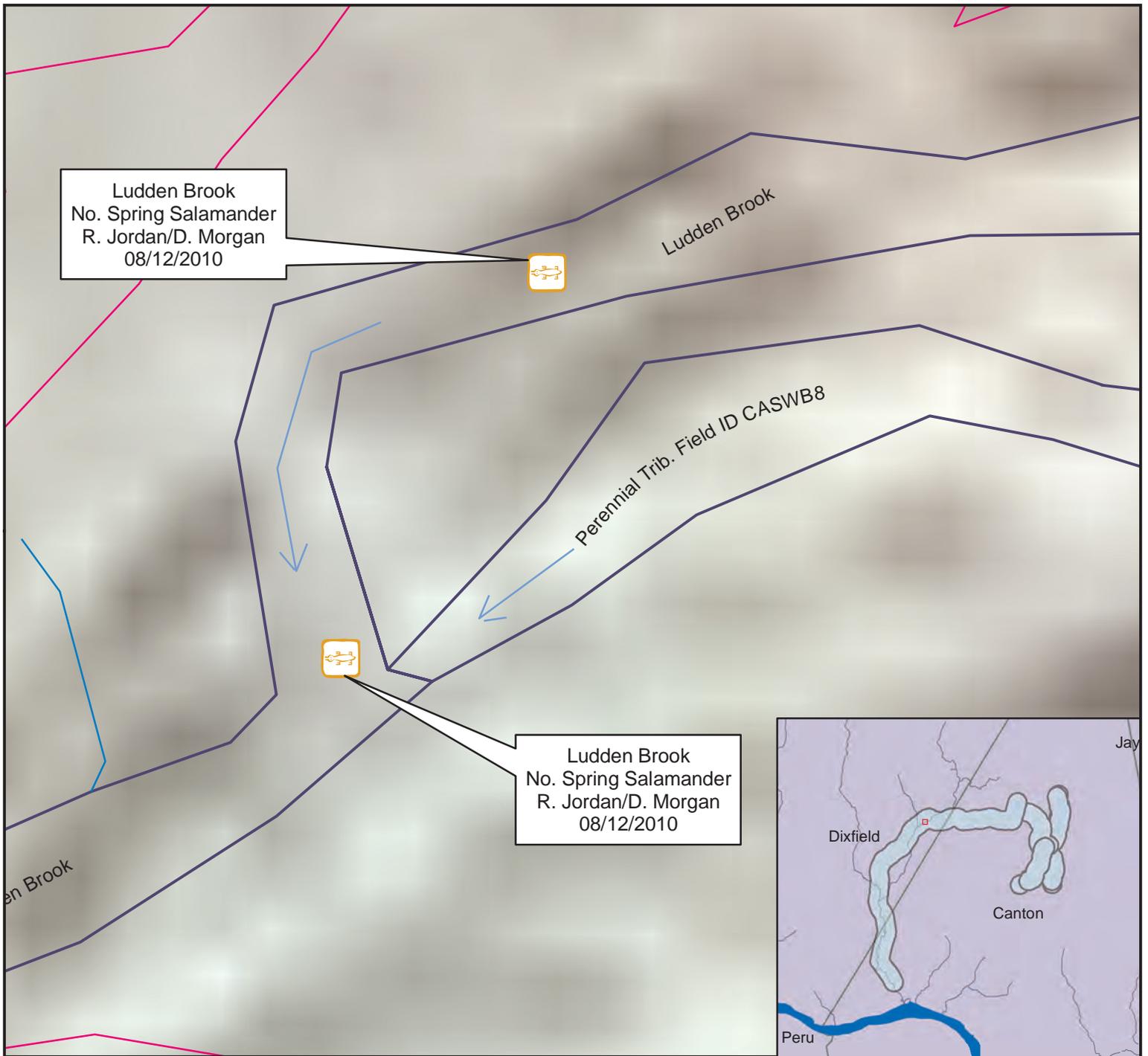
HAND-DRAWN

- Scale drawn at = 1: _____
- Topographic map (scale = 1: _____)
- Aerial imagery Other: _____
- scale = 1: _____
- date = _____

OVERALL LOCATION ACCURACY: including uncertainty about where the animal/habitat feature was and mapping accuracy related to the GPS unit used, resolution of reference information like topographic maps or aerial photos used, etc.:

± _____ meters / feet / kilometers / miles

Timberwinds - Spring Salamander Assessment 2010



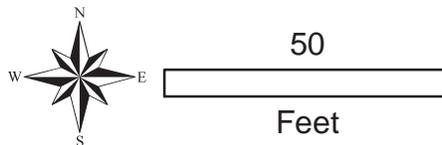
Legend

 North Spring Salamander Found

Boyle 2010 Streams

Stream Type

-  Intermittent
-  Perennial
-  Wetland Boundary



Project: Timberwinds; Canton, Maine

Drawing Date: September 2010

Notes:



Boyle Associates
Environmental Consultants
Mailing Address:
25 Dundee Road
Gorham, Maine 04038

phone: 207.591.5220

INSTRUCTIONS: Complete 1 form per visit. Grayed sections are for Heritage office use only.

RARE ANIMAL SURVEY FORM

MDIFW
650 State St.
Bangor, ME
04401

Completed By: David Brenneman Date: 8/27/2010 Review by (MDIFW): _____ Date: _____

SURVEYSITE: <u>Canton Mountain</u>		TOWNSHIP: <u>Dixfield, ME</u>	
NEW EO (check):	UPDATE (check):	(EO NUM: _____)	DELORME PAGE & GRID (e.g. 04B2): <u>19E4</u>

ELEMENT INFORMATION

Common Name: <u>Northern Spring Salamander</u>	Scientific Name: <u>Gyrinophilus p. porphyriticus</u>
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SURVEYOR INFORMATION

Survey date (yyyy – mm – dd): <u>2010-08-12</u>	Time from: <u>1300</u>	To: <u>1600</u>	am or <u>pm</u>	Sourcecode: <u>F_____</u>
Surveyors (principal surveyor first, include first & last name and contact information): <u>Richard Jordan (207) 671-2760, Dawn Morgan (802) 793-5807</u>				

IDENTIFICATION

Photograph/slide taken? Yes <u>X</u> No _____	Notes & repository: _____
Specimen collected? Yes _____ No <u>X</u>	Specimen # and repository: _____
Identification problems? Yes _____ No <u>X</u>	Explain: _____

ELEMENT OCCURRENCE INFORMATION

- Type of Observation: sight X vocalization _____ handled _____ collected _____ other (explain): _____
- Observed Abundance (incl. age and sex): Single adult found
- Estimated Abundance (and basis for estimate): _____
- Evidence of Reproduction and/or Other Behaviors: _____
- Misc. Notes: Identified adult was not photographed or handled by biologists. However, both are trained and familiar with identifying the Northern Spring Salamander and were in agreement regarding the species they had seen.

HABITAT DESCRIPTION

Describe the specific habitat or micro-habitats where this animal occurs. Convey a mental image of the habitat and its features including: land forms, aquatic features, vegetation, slope, aspect, soils, associated plant and animal species, natural disturbances.

Northern Spring Salamander (NSS) found in Ludden Brook, approximately 130' upstream of the confluence of Ludden Brook and a perennial, unnamed trib (field ID CASWB8). Stream habitat consisted of fast moving water over cobble and boulder sized rock and a sand/gravel substrate. Little to no vegetation found within the brook channel. Bank to bank of the brook averages around 30' wide in most places. Adjacent areas of the stream consist of uplands with some small areas of floodplain wetland. A mixed forested overstory dominates this area.

THREATS AND/OR MANAGEMENT CONCERNS: There is a gravel road (Ludden Lane) that parallels the brook and runs east/west in this area. The road is primarily used for forestry (logging) access of Canton Mountain.

DIRECTIONS

Provide detailed directions to this element occurrence (versus the survey site) using a readily locatable and relatively permanent landmark as a starting point. Refer to nearby landmarks, roads and villages. Include distances, compass directions (North, South etc.).

From the intersection of Ludden Lane and Canton Point Road follow Ludden Lane north for approximately one mile. Around .75 miles you will cross a small logging bridge over Ludden Brook and then a small residence on the west side of Ludden Lane. Continuing north you will pass a small cemetery on the west side of Ludden Lane. About 1000' north of the cemetery the road forks and you want to bear right at this intersection. Continue for approximately another mile until you reach another intersection in the road. The NSS occurrence is approximately 75' southwest of this intersection.

OWNER: (If known, indicate name of owner(s), address and phone number): _____

LOCATION of OBSERVATION

Source 1: 394314.843 UTM-E / Lat 4930146.443 UTM-N / Long **NAD 83 / 27** (circle one)

Source 2: _____ UTM-E / Lat _____ UTM-N / Long **NAD 83 / 27** (circle one)

Coordinates / polygon provide location of:

Animal/habitat feature(s) **OR** Observer--DISTANCE / DIRECTION to animal/habitat feature: _____ meters / feet at _____ °

GPS Unit Information

Differentially corrected Unit accuracy for location: ± 0.4 m # of Satellites = 6 2D / 3D

Unit Model Trimble Geo XH

LOCATION SKETCH (or attach aerial photograph/photocopied topo) Sketch fine details of an overhead view of this observation that may not be apparent on a topo map. Indicate landmarks, important features, route taken, animal/habitat observed, disturbances & threats, scale, and north. Include GPS location(s).

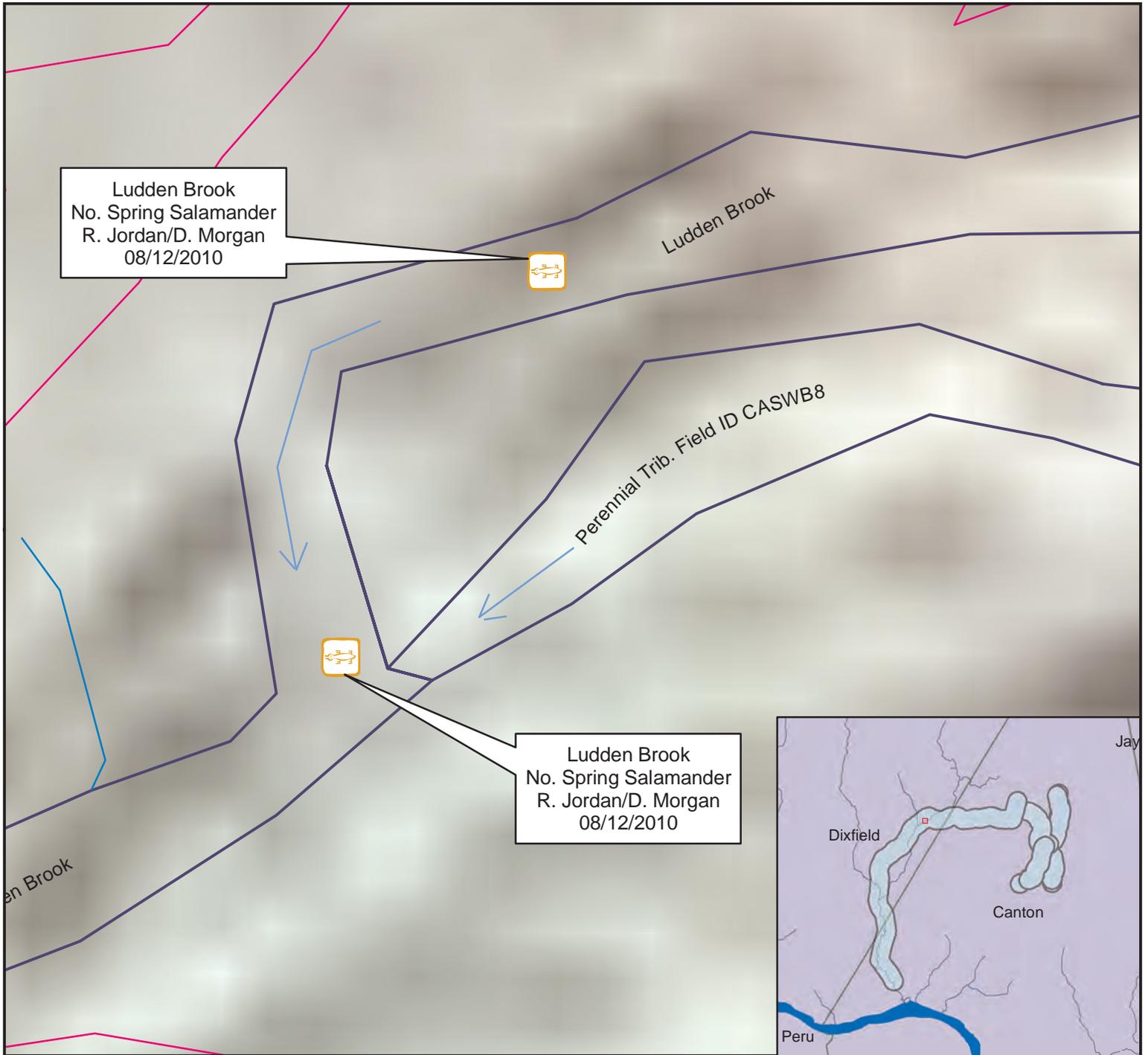
See drawing on next page.

<u>DIGITIZED IN GIS</u>	<u>HAND-DRAWN</u>
Scale digitized at = 1: _____ <input type="checkbox"/> 1:24,000 topographic maps <input type="checkbox"/> Orthophoto (pixel size = _____ m / ft), date = _____ <input type="checkbox"/> Other: _____	Scale drawn at = 1: _____ <input type="checkbox"/> Topographic map (scale = 1: _____) <input type="checkbox"/> Aerial imagery <input type="checkbox"/> Other: _____ scale = 1: _____ date = _____

OVERALL LOCATION ACCURACY: including uncertainty about where the animal/habitat feature was and mapping accuracy related to the GPS unit used, resolution of reference information like topographic maps or aerial photos used, etc.:

± _____ meters / feet / kilometers / miles

Timberwinds - Spring Salamander Assessment 2010



Legend

 North Spring Salamander Found

Boyle 2010 Streams

Stream Type

-  Intermittent
-  Perennial
-  Wetland Boundary



50
Feet

Project: Timberwinds; Canton, Maine

Drawing Date: September 2010

Notes:



Boyle Associates
Environmental Consultants
Mailing Address:
25 Dundee Road
Gorham, Maine 04038

phone: 207.591.5220

INSTRUCTIONS: Complete 1 form per visit. Grayed sections are for Heritage office use only.

RARE ANIMAL SURVEY FORM

MDIFW
650 State St.
Bangor, ME
04401

Completed By: David Brenneman Date: 8/27/2010 Review by (MDIFW): _____ Date: _____

SURVEYSITE: <u>Canton Mountain</u>		TOWNSHIP: <u>Canton, ME</u>	
NEW EO (check):	UPDATE (check):	(EO NUM: _____)	DELORME PAGE & GRID (e.g. 04B2): <u>19E4</u>

ELEMENT INFORMATION

Common Name: <u>Northern Spring Salamander</u>	Scientific Name: <u><i>Gyrinophilus p. porphyriticus</i></u>
--	--

SURVEYOR INFORMATION

Survey date (yyyy – mm – dd): <u>2010-08-12</u>	Time from: <u>1120</u>	To: <u>1150</u>	<u>am</u> or pm	Sourcecode: <u>F_____</u>
Surveyors (principal surveyor first, include first & last name and contact information): <u>Richard Jordan (207) 671-2760, Rodney Kelshaw (207) 944-6776</u>				

IDENTIFICATION

Photograph/slide taken? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes & repository: _____
Specimen collected? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Specimen # and repository: _____
Identification problems? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Explain: _____

ELEMENT OCCURRENCE INFORMATION

1. Type of Observation: sight vocalization handled collected other (explain): _____
2. Observed Abundance (incl. age and sex): Single adult found
3. Estimated Abundance (and basis for estimate): _____
4. Evidence of Reproduction and/or Other Behaviors: _____
5. Misc. Notes _____

HABITAT DESCRIPTION

Describe the specific habitat or micro-habitats where this animal occurs. Convey a mental image of the habitat and its features including: land forms, aquatic features, vegetation, slope, aspect, soils, associated plant and animal species, natural disturbances.

Northern Spring Salamander (NSS) found in small perennial stream approximately 24" wide. Stream bed consisted of shallow runs and leaf litter. Some cobbles present in channel. Adjacent wetlands consisted of mostly deep organics. Stream begins as an overland drainage (non-wetland/non-stream) with surficial flow on side-slope. The drainage quickly empties to an eroded gully and the stream begins. Old and new skid trails in adjacent habitats of stream. Area is mostly hardwood forest with a fairly closed canopy over stream. Stream did not appear to be suitable NSS habitat upon initial survey, but one individual was found in stream bed.

THREATS AND/OR MANAGEMENT CONCERNS: Adjacent area was being actively logged adjacent to stream at time of survey.

DIRECTIONS

Provide detailed directions to this element occurrence (versus the survey site) using a readily locatable and relatively permanent landmark as a starting point. Refer to nearby landmarks, roads and villages. Include distances, compass directions (North, South etc.).

From the intersection of Ludden Lane and Canton Point Road follow Ludden Lane north for approximately one mile. Around .75 miles you will cross a small logging bridge over Ludden Brook and then a small residence on the west side of Ludden Lane. Continuing north you will pass a small cemetery on the west side of Ludden Lane. About 1000' north of the cemetery the road forks and you want to bear right at this intersection. Continue for approximately another mile until you reach another intersection in the road where you will bear right again and cross a timber bridge. Continue along gravel road for another mile. At the next (T) intersection turn right. Travel about 3000' along this road. From this point you will need to travel on foot approximately 1500' to the east.

OWNER: (If known, indicate name of owner(s), address and phone number): _____

LOCATION of OBSERVATION

Source 1: 396115.744 UTM-E / Lat 4929105.821 UTM-N / Long **NAD 83 / 27** (circle one)

Source 2: _____ UTM-E / Lat _____ UTM-N / Long **NAD 83 / 27** (circle one)

Coordinates / polygon provide location of:

Animal/habitat feature(s) **OR** Observer--DISTANCE / DIRECTION to animal/habitat feature: _____ meters / feet at _____ °

GPS Unit Information

Differentially corrected Unit accuracy for location: ± 0.3 m # of Satellites = 6 2D / 3D

Unit Model Trimble Geo XH

LOCATION SKETCH (or attach aerial photograph/photocopied topo) Sketch fine details of an overhead view of this observation that may not be apparent on a topo map. Indicate landmarks, important features, route taken, animal/habitat observed, disturbances & threats, scale, and north. Include GPS location(s).

See drawing on next page.

DIGITIZED IN GIS

- Scale digitized at = 1: _____
- 1:24,000 topographic maps
- Orthophoto (pixel size = _____ m / ft), date = _____
- Other: _____

HAND-DRAWN

- Scale drawn at = 1: _____
- Topographic map (scale = 1: _____)
- Aerial imagery Other: _____
- scale = 1: _____
- date = _____

OVERALL LOCATION ACCURACY: including uncertainty about where the animal/habitat feature was and mapping accuracy related to the GPS unit used, resolution of reference information like topographic maps or aerial photos used, etc.:

± _____ meters / feet / kilometers / miles

Timberwinds - Spring Salamander Assessment 2010



Legend



North Spring Salamander Found

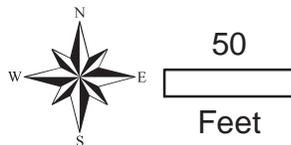
Boyle 2010 Streams

Stream Type

— Intermittent

— Perennial

— Wetland Boundary



Project: Timberwinds; Canton, Maine

Drawing Date: September 2010

Notes:



Boyle Associates
Environmental Consultants
Mailing Address:
25 Dundee Road
Gorham, Maine 04038

phone: 207.591.5220

Appendix B. Maine Amphibian & Reptile Atlas site cards – Non-northern Spring Salamanders

Maine Amphibian and Reptile Atlasing Project (MARAP) Site Card

Date:

Township:

County:

Site Name:

DeLorme Map Page & Grid (e.g., 02B3):

Name:

Address:

City:

State: Zip Code: Phone:

Email:

Additional Observers:

Location: (be specific, reference mapped landmarks, when possible include GPS coordinates)
 This is an unnamed intermittent stream located along Ludden Lane & on the western side of Canton Mountain. The field identification number is CASBK42.
 GPS Location UTM Meters: 4930044.846N 395057.258E
 See the report for photos and more details.

Habitat Description: The average width is approximately 2 to 4 feet and the stream flow is relatively fast. The substrate is a complex of bedrock and sandy materials with a surface of cobbles. There are many small pools where organics accumulate behind roots and stones.

Species (and # observed)	Microhabitat	Photo	Handled	Observed	Heard (frogs only)	ID Confidence (%)
1 Northern Two-lined Salamander (several)	cobbles	Yes	Yes	Yes		100
2 Dusky Salamander (several)	cobbles	Yes	Yes	Yes		100
3						
4						
5						
6						
7						
8						
9						
10						

Notes (Description, Behavior, Age, Sex - - please annotate with Species # above):

Northern Two-lined Salamander - Adult & Juvenile
 Dusky Salamander - Adult & Juvenile

Return this form and labeled photos to:
 MARAP: Reptile, Amphibian, and Invertebrate Group
 Department of Inland Fisheries and Wildlife
 650 State Street, Bangor, ME 04401

OR email

jonathan.mays@maine.gov
 or
 phillip.demaynadier@maine.gov

Maine Amphibian and Reptile Atlasing Project (MARAP) Site Card

Date:

Township:

County:

Site Name:

DeLorme Map Page & Grid (e.g., 02B3):

Name:

Address:

City:

State: Zip Code: Phone:

Email:

Additional Observers:

Location:
 (be specific, reference mapped landmarks, when possible include GPS coordinates)

GPS Location UTM Meters: 4928851.961N 393538.742E
 4930118.966N 394300.184E
 4930146.296N 394314.862E

Habitat Description:

Species (and # observed)	Microhabitat	Photo	Handled	Observed	Heard (frogs only)	ID Confidence (%)
1 Northern Spring Salamander (1)	Cobbles	<input type="text" value="Yes"/>	<input type="text" value="Yes"/>	<input type="text" value="Yes"/>	<input type="text"/>	<input type="text" value="100"/>
2 Northern Two-lined Salamander (several)	Cobbles	<input type="text" value="Yes"/>	<input type="text" value="Yes"/>	<input type="text" value="Yes"/>	<input type="text"/>	<input type="text" value="100"/>
3 Dusky Salamander (several)	Cobbles	<input type="text" value="Yes"/>	<input type="text" value="Yes"/>	<input type="text" value="Yes"/>	<input type="text"/>	<input type="text" value="100"/>
4		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
5		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
6		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
7		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
8		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
9		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
10		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Notes (Description, Behavior, Age, Sex - - please annotate with Species # above):

Return this form and labeled photos to:
 MARAP: Reptile, Amphibian, and Invertebrate Group
 Department of Inland Fisheries and Wildlife
 650 State Street, Bangor, ME 04401

OR email

jonathan.mays@maine.gov
 or
 phillip.demaynadier@maine.gov

Maine Amphibian and Reptile Atlasing Project (MARAP) Site Card

Date:

Township:

County:

Site Name:

DeLorme Map Page & Grid (e.g., 02B3):

Name:

Address:

City:

State: Zip Code: Phone:

Email:

Additional Observers:

Location:
(be specific, reference mapped landmarks, when possible include GPS coordinates)

GPS Location UTM Meters:
 See the report for photos and more details.

Habitat Description:

Species (and # observed)	Microhabitat	Photo	Handled	Observed	Heard (frogs only)	ID Confidence (%)
1 Northern Spring Salamander (1)	Cobbles	Yes	Yes	Yes		100
2 Northern Two-lined Salamander (2)	Cobbles	No	Yes	Yes		100
3						
4						
5						
6						
7						
8						
9						
10						

Notes (Description, Behavior, Age, Sex - - please annotate with Species # above):

Return this form and labeled photos to:
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