

field ID



G1NE0898 12052017

 Lake Alice Outlet storet ID
 @ Newell Rd.


G1NE0898

**F ENVIRONMENTAL PROTECTION
 IING PROGRAM FIELD SHEET**

October 2017

PAGE 1 OF

Data Qualified?

Yes / No

Date: 12/18/17

(mm/dd/yyyy)

County: Alachua RQ - 2017-12-04-34

WBID: 2719

Latitude: 29.6425

(Decimal Degrees)

Longitude: 82.3437

(Decimal Degrees)

Receiving Body of Water: Lake Alice

Field ID: See label

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
B = Vc J P...ish				☒	☒	☒	☒	☒	☒ Sample Container	☒ Van Dorn	☒ Pole	
									☐ Carboy	☐ Syringe		
									☐ Dipper	☐ Other		
									Equipment ID ORTHO # 2			
Collection Method												
☐ Wading									☐ Canoe/Kayak			
☒ From Shore									☐ Electric Motor			
☐ Other									☐ Gasoline Motor			
Water Level: Dry ☒ Low / Normal / Above Normal / Flooded				Meter ID# YSI #4				Matrix: ☒ Fresh / Marine / DI				
Photos: Yes / No				Flow: No Flow / Intestinal / Flowing / NA				Tide: Rising / Falling / Slack / NA				
								Tide Times: High / Low				
Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Secchi Disk (m)	Sp COND (µmhos/cm)	Temp. (C)		
CEN	1120	0.1	0.1	9.10	97.3	7.79	0.21	VOR (S)	439	18.57		

Biological Samples Collected: None ☒ HA ☒ SCI ☒ RPS ☒ Algae ID ☒ LVS ☒ LVI ☒ Other											
SBIO ID Numbers: SBIO-ID: HA-ID: RPS-ID: Macrophyte-ID: LIMS#											
Parameter Suite	Parameter Methods					Preservation	Lot#	Expiration	pH Check		
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP					☒ Ice ☐ H2SO4			☒ 2		
Metals	☐ W-ICPMS ☐ W-ICP					☒ Ice ☐ HNO3					
Filtered Nutrients	☐ W-PO4-F ☐ Field Filtered 0.45 µm Filter					☒ Ice					
Chlorophyll	☒ CHLSUITE-W					☐ Ice					
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-IC / W-COLOR / W-SO4-IC / W-TDS					☒ Ice					
Physical/Aggregate (Marine)	☐ Alkalinity / W-F / W-TSS / TURBIDITY					☐ Ice					
Macroinvertebrates	☐ MI-FW-QLDC					☐ Formalin					
Periphyton	☐ ALGAE-ID					☐ Ice					
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci					☐ Ice					
Molecular	☐ PCR-FILTER ☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-GFD					☐ Ice					
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA					☐ Ice					
Pesticides	☐ W-PSNP-TQ ☐ W-UHERB-AA ☐ W-AHERB-AA ☐ W-PCL-SQ-R ☐ W-PYR-AA-R ☐ W-GLYPH ☐ W-SUC-AA-R					☐ Ice ☐ Other					

 Contains: 1:1 Sulfuric Acid
 Lot No.: SA7275010
 Expires: 10/02/18
 See Safety Data Sheet (SDS)

 Contains: 1:1 Sulfuric Acid
 Lot No.: SA7275010
 Expires: 10/02/18
 See Safety Data Sheet (SDS)

Notes:

 Place Label Here
 (If Available)

Signature: B = Vc

Date: 12/18/17

Field Parameters Entered into LIMS: 12/17/17

(Initials/Date)

Field Parameters QC in LIMS:

(Initials/Date)

Date Migrated to STORET:

(Initials/Date)

Field Sheets Scanned/Saved:

(Initials/Date)

LINEAR VEGETATION SURVEY FIELD SHEET

Lake Alice Outlet store ID
@ Newell Rd.



G1NE0898

e:	County:	Store Number:
	Signature: <i>[Signature]</i>	6140892

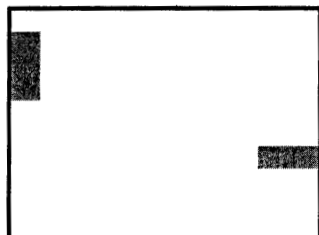
Instructions: Note taxa growing in the water with a checkmark if present, "D" if dominant, and "C" if codominant (dominance only if 1 m² of taxa present). Note in the boxes below if no dominant are selected, and note total macrophyte abundance rank for each section. Only the most common taxa are listed, so use blank spaces for additional taxa names.

[illegible]

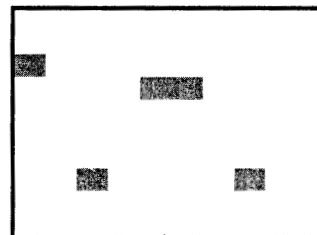
FDEP FORM FD 9000-32 LINEAR VEGETATION SURVEY FIELD SHEET

Percent Cover Categories for macrophytes in a 10 m segment of a stream 5 m wide

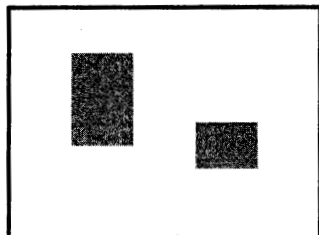
5% Macrophyte Coverage



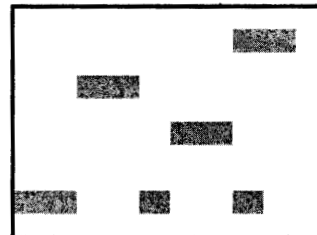
5% Macrophyte Coverage



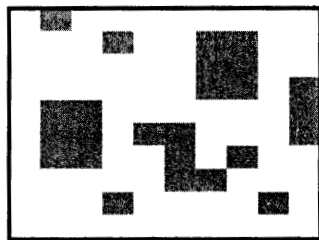
10% Macrophyte Coverage



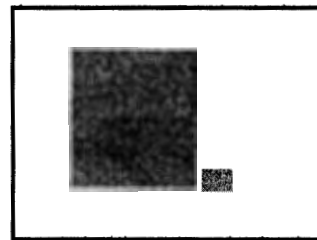
10% Macrophyte Coverage



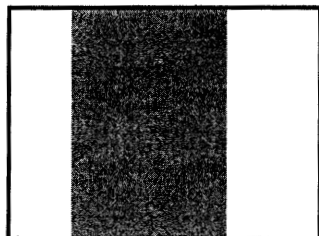
25% Macrophyte Coverage



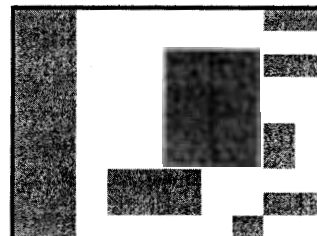
25% Macrophyte Coverage



50% Macrophyte Coverage



50% Macrophyte Coverage



field ID



G1NE0038 12052017

sical/Chemical Characterization Field Sheet

2/12/14

 Lake Alice Outlet
 @ Newell Rd.

store ID



G1NE0898

LATITUDE 29.6425

LONGITUDE 82.3437

SAMPLING AGENCY DEAR NEP

SITE NAME

FIELD ID/NAME

78148

RECEIVING BODY OF WATER Lake Alice

RIPARIAN ZONE / STREAM FEATURES

Meter ID: YSI #4

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category):

 Forest/Natural ☐ Silviculture ☐ Field/Pasture ☐ Agricultural ☐ Residential ☐ Commercial ☐ Industry ☐ Other (Specify) ☐

Landscape Development Intensity Index (LDI)

Local Watershed Erosion (select one): ☐ None ☐ Slight ☐ Moderate ☒ HeavyLocal Watershed NPS Pollution: ☒ No evidence ☐ Slight ☐ Moderate ☐ Heavy

Width of Riparian Vegetation (m) on Each Buffer Side

Left Bank: 6m Right Bank: 6m

Hydrologic Modification Score (per FT 3101) 7-8

 High Water Mark: 1.0 + 0.05 = 1.05
 (m) (above present water level) (present depth) (above bed)

Artificially Impounded

☒ Yes ☐ NoArtificially ☐ No☒ Mostly recovered, more sinuousChannelized: ☐ Some recovery☐ Recent, severe

Canopy Cover %

☐ Open☒ Heavily Shaded☐ Lightly Shaded (11-45%)☐ Moderate Shaded (46-80%)

Typical Width (m) Depth (m) Velocity (m/sec) Transect

1.0 m wide

0.13 m/s

0.05 m deep

SEDIMENT / SUBSTRATE

Sediment Oils

☒ Absent ☐ Slight
☐ Moderate ☐ Profuse

Sediment Odors

☒ Normal ☐ Sewage ☐ Petroleum
☐ Chemical ☐ Anaerobic
☐ Other (Specify):

Smothering of Substrates

 Sand Smothering: None ☐ Slight ☒ Moderate ☐ Severe ☐
 Silt Smothering: None ☒ Slight ☐ Moderate ☐ Severe ☐
 Algae Smothering: None ☒ Slight ☐ Moderate ☐ Severe ☐

SUBSTRATE TYPE

Assessment Tool: ☐ SCI ☒ RPS ☒ LVS☐ LCI ☐ BioRecon
 % Coverage
 INVERT # Times Sampled
 PERI # Times Sampled

Woody Debris (Snags) 0

Undercut Banks / Roots 2

Leaf Packs or Mat 0

Aquatic Vegetation

Rock or Shell Rubble 9

Sand

Mud / Muck / Silt

Other

Other

WATER QUALITY

	Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)
Top:	0.1	18.51	7.79	9.10	97.3	439	0.21	10.8
Mid:								
Bottom:								0.1

System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other (Specify) ☐
 Water Odors Normal ☒ Petroleum ☐
 Sewage ☐ Chemical ☐ Other ☐

 Water Surface Oils Normal ☒ Sheen ☐
 Globbs ☐ Slick ☐ Other ☐
Water Sample Taken? ☒ Yes ☐ NoSample Preserved? ☒ Yes ☐ No

Lot Number: SA 7275010 Exp: 10/2/18

Algae Sample Taken? ☐ Yes ☒ NoSample Preserved? ☐ Yes ☒ No

Lot Number: Exp:

 Color Tannic ☒ Green (Algae) ☐
 Clear ☐ Other (Specify) ☐

 Clarity Clear ☒ Slightly Turbid ☐
 Turbid ☐ Opaque ☐

ABUNDANCE

Not Obs. Rare Common Abundant

Periphyton: ☒ ☐ ☐ ☐Fish: ☐ ☒ ☐ ☐Aquatic Plants: ☒ ☐ ☐ ☐Iron/Sulfur Bacteria: ☒ ☐ ☐ ☐

AMBIENT FIELD CONDITIONS / NOTES:

Hydrologic Disturbance Scoring ☐ 1-2 ☐ 3-4 ☐ 5-6 ☐ 7-8 ☐ 9-10☐ The antecedent hydrologic conditions have been met to my best knowledge.

SAMPLING TEAM

SIGNATURE:

Jery Carr / B. Pines

Jery Carr

field ID



G1NE0038 12052017

Lake Alice Outlet storet ID

@ Newell Rd.



G1NE0898

Rapid Periphyton Survey Field Sheet

Date:

12/18/17

Investigators:

B. Davis

STORET Station Number:

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover	Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover	
0	1	N	N		60	1	N	N		
	2					2				
	3					3				
	4					4				
	5			96		5			96	
	6					6				
	7					7				
	8					8				
	9	N				9	N			
10	1	N			70	1	N			
	2					2				
	3					3				
	4					4				
	5			96		5			94	
	6					6				
	7					7				
	8					8				
	9	N				9	N			
20	1	N			80	1	N			
	2					2				
	3					3				
	4					4				
	5			96		5			96	
	6					6				
	7					7				
	8					8				
	9	N				9	N			
30	1	N			90	1	N			
	2					2				
	3					3				
	4					4				
	5			90		5			91	
	6					6				
	7					7				
	8					8				
	9	N				9	N			
40	1	N			100	1	N			
	2					2				
	3					3				
	4					4				
	5			96		5			73	
	6					6				
	7					7				
	8					8				
	9	N				9	N			
50	1	N				1	N			
	2					2				
	3					3				
	4					4				
	5			96		5				
	6					6				
	7					7				
	8					8				
	9	N				9	N			

Secchi depth 10.8
Estimated?

points ranked 4-6 0
total points assessed 99
% points ranked 4-6 0

Check accompanying data collected at same site/date.
Algal mat sample ☐
Linear Veg Survey ☒
Habitat Assessment ☒
SCI/Biorecon ☐
Water sample ☒
RQ- 2017-12-04-34

Algal Thickness Rank	
N	rough, no algae, slimy, algae up to 1mm
3	>1mm - 6mm
4	>6mm - 20mm
5	>20mm - 10 cm
6	>10 cm

Record "N" and check "Estimated" for points deeper than the Secchi depth; algae are presumed absent. Check "Estimated" if thickness estimated for deep points which can be seen but not reached.

Record "X" for points shallower than Secchi depth for which substrate cannot be seen or reached with the hand. No estimated rank.

Record canopy cover as the number of small densiometer quadrants (out of 96) that HAVE canopy cover. Measure facing upstream at point 4, 5, or 6.

Collect algal mat sample following DEP SOP FS 7240 if the percentage of total sampled points with a thickness rank of 4, 5, or 6 is >20%.

field ID



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eam/River Habitat Assessment Field Sheet

 Lake Alice Outlet
 @ Newell Rd.

storet ID



G1NE0898

STORET STATION NUMBER:

61NE0898

DATE (MM/DD/YY):

12/18/17

RECEIVING BODY OF WATER:

Lake Alice

REMARKS:

COUNTY:

Alameda

LOCATION:

FIELD ID/NAME:

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components	Four or more major productive habitats present (snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock)	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags)	Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed	One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered
Substrate Diversity <u>7</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 <u>7</u> 6	5 4 3 2 1
Substrate Availability <u>8</u>	Greater than 30% major productive habitat present at site 20 19 18 17 16	16% to 30% major productive habitat, by aerial extent 15 14 13 12 11	6% to 15% major productive habitat 10 9 <u>8</u> <u>7</u> 6	Less than 5% major productive habitat 5 4 3 2 1
Water Velocity <u>12</u>	Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec ≥0.33 0.31 0.29 0.27 >0.25 20 19 18 17 16	Max. observed at typical transect: >0.1 to 0.25 m/sec 0.25 0.21 0.17 0.13 >0.1 15 14 13 <u>12</u> 11	Max. observed at typical transect: 0.05 to 0.1 m/sec 0.1 0.09 0.07 0.06 0.05 10 9 8 7 6	Max. observed at typical transect: <0.05 m/sec; or spate occurring: > 1 m/sec <0.05 0.04 0.03 0.01 <0.01 5 4 3 2 1
Habitat Smothering <u>7</u> Primary Score <u>34</u>	Adequate number of stable pools (1-2 per 12 times width) and <25% of habitats affected by sand, silt, or algae. 20 19 18 17 16	Adequate number of stable pools (1-2 per 12 times width) and >25% of habitats affected by sand, silt, or algae. 15 14 13 12 11	Does not have required number of stable pools (1-2 per 12 x width) and/or has shallow pools (<2 x prevailing depth). 10 9 8 <u>7</u> 6	Stable pools are absent. Most habitats affected by sand, silt, or algae accumulation. 5 4 3 2 1
Secondary Habitat Components	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks.	Good sinuosity within old channelized area. Evidence of dredging in the past (>25 yrs) but mostly recovered.	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area.	Straightened or engineered by dredging, has trapezoidal or box cut cross section, lacks required pools. May have spoil banks.
Artificial Channelization <u>12</u>	20 19 18 17 16	15 14 13 <u>12</u> 11	10 9 8 7 6	5 4 3 2 1
Bank Stability <u>3</u> Right Bank <u>3</u> Left Bank <u>3</u>	Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankfull to top of bank. Bankfull is within or above the root zone with few raw, eroded areas. 10 9	Only meets 2 of the 3 requirements for optimal bank stability. 8 7 6	Only meets 1 of the 3 requirements for optimal bank stability. 5 4	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas. <u>3</u> 2 1
Riparian Buffer Zone Width <u>4</u> Right Bank <u>4</u> Left Bank <u>4</u>	Width of vegetation greater than 18 m 10 9	Width of vegetation >12 to 18m 8 7 6	Width of vegetation 6 to 12 m. human activities close to system 5 <u>4</u>	Less than 6 m of buffer zone due to intensive human activities <u>3</u> 2 1
Riparian Zone Vegetation Quality <u>6</u> Right Bank <u>6</u> Left Bank <u>6</u> Secondary Score <u>38</u>	Over 80% of riparian surfaces consist of normal, expected plant community for given sunlight & habitat conditions (e.g., native plants; tree, shrub, and forbs represented, if appropriate). Minimal disturbance. 10 9	>50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed. 8 7 <u>6</u>	25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious. <u>5</u> 4	Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). 3 2 1

TOTAL SCORE

Date:

12/18/17

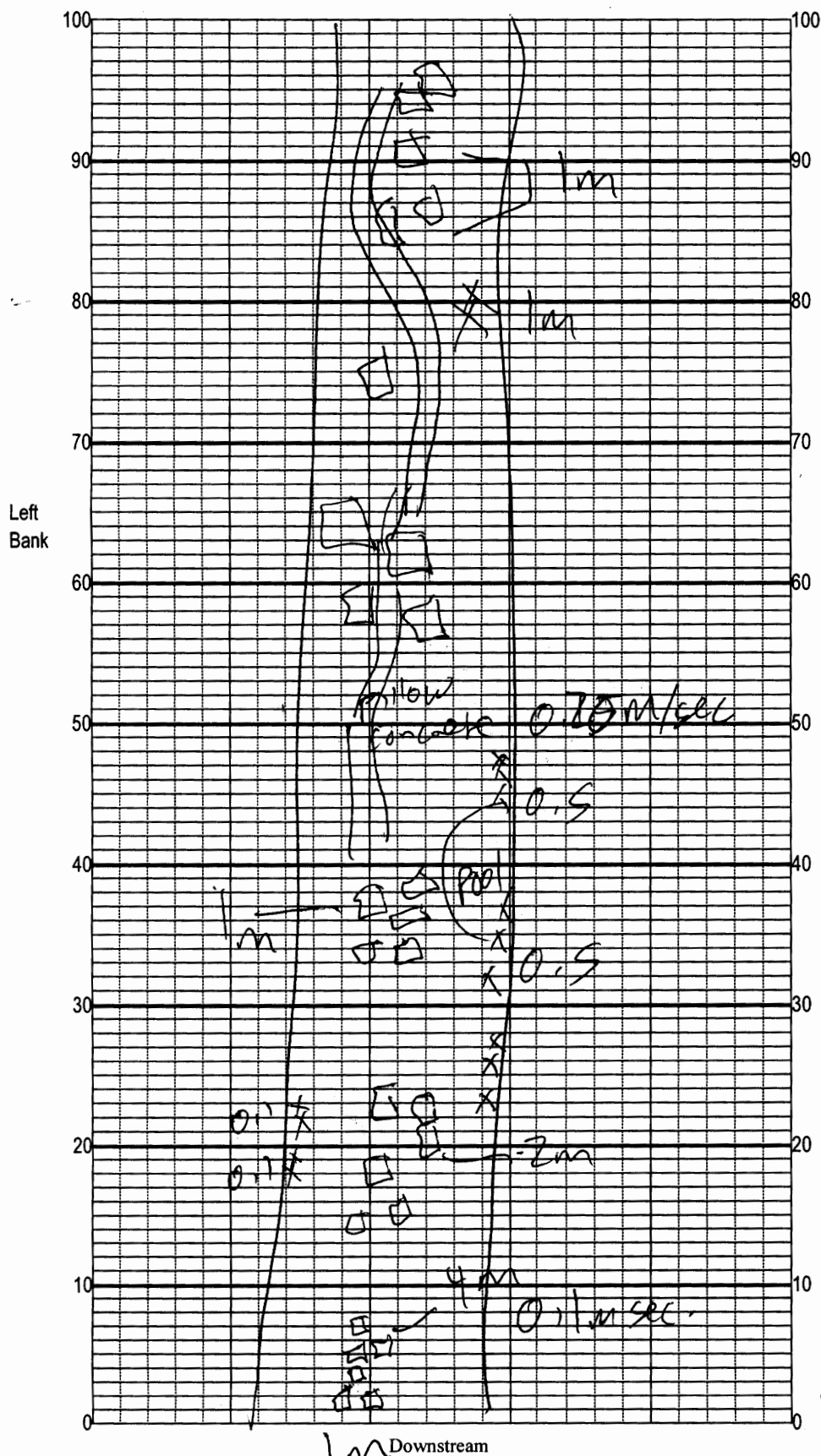
Analyst:

Jerry Curran

Signature:

Jerry Curran

DEP Form FD 9000-4 Stream/River Habitat Assessment Sketch Sheet



Length of grid represents 100 m of stream (not linear meters).
(Horizontal scale is double vertical scale, draw proportionately).

Location: 61 Ne 0898 Lake Alice over Newell
Date: 12/18/17
Sampler: _____

100 m: Latitude _____	
Longitude _____	
0 m: Latitude _____	
Longitude _____	
Substrates: Code key, draw proportionate habitat abundance. %	
☐	Snags _____
☒	Roots/undercut banks <u>2</u>
☐	Leaf Packs (or mats) _____
☐	Aquatic Macrophytes _____
☒	Rock <u>7</u>
☐	_____
☐	Pools
total # observed = _____	
# range expected = _____	
Average width <u>1.0</u> m	
Average depth <u>0.05</u> m	
Velocity measured at <u>0</u> meter mark.	
WQ & chemistry taken at <u>0</u> meter mark.	
Habitat Smothering: Note areas (on map) where sand or silt is smothering substrates, limiting habitability.	
Bank Stability: Note areas (on map) with unstable, eroding banks.	
Riparian Buffer Width: Note areas (on map) where natural vegetation is altered or eliminated.	

Plants observed / other notes:

<2 M of Macrophytes was observed while doing the LVS? YES or NO YES

100 total
Score