

Site: 1230 Adelaide	
Polygon: WAD-000	
UTM:	
Date: 21 July 2011	Time: 13:15
Surveyor(s): KNP, AMP	
Weather: 35°C 55% cloud cover, windspeed 5 SW	

**Wildlife Habitat (Check all that apply AND record UTM / mark on map)**  
*\*Habitats and Habitat Features are independent of wildlife observations\**

Habitat Type	Habitat Features	
<input checked="" type="checkbox"/> Deciduous Forest	<b>Birds</b>	<b>Snakes</b>
<input type="checkbox"/> Mixed Forest	<input type="checkbox"/> Spring Flooded Field	<input type="checkbox"/> Burrow
<input type="checkbox"/> Coniferous Forest	<input type="checkbox"/> Stick Nest (Raptors, Herons)	<input checked="" type="checkbox"/> Fallen Rotting Log
<input type="checkbox"/> Marsh	<input type="checkbox"/> Snag (Raptors, Herons)	<input type="checkbox"/> Old Well
<input type="checkbox"/> Swamp	<input type="checkbox"/> Tree Cavity Nest (Ducks)	<input checked="" type="checkbox"/> Rock Pile/Stone Wall
<input type="checkbox"/> Bog	<input type="checkbox"/> Seep/Spring (Turkeys/Grouse)	<input type="checkbox"/> Organics Pile
<input type="checkbox"/> Fen	<input type="checkbox"/> Cliffs/Banks	<input type="checkbox"/> Log Pile
<input type="checkbox"/> Water	<b>Bats</b>	<input type="checkbox"/> Karst
<input type="checkbox"/> (Shallow & Open)	<input type="checkbox"/> Cave Entrance	<input type="checkbox"/> Broken/Fissured Rock
<input type="checkbox"/> Meadow	<input type="checkbox"/> Mine Shaft	<input type="checkbox"/> Old Foundation
<input type="checkbox"/> Tallgrass Prairie	<input type="checkbox"/> Snag (>20cm DBH)	<input type="checkbox"/> Old Bridge/Concrete Culvert
<input type="checkbox"/> Thicket	<b>Mink/Otter/Fisher/Marten</b>	<b>Amphibians and Turtles</b>
<input type="checkbox"/> Savannah	<input type="checkbox"/> Snag	<input type="checkbox"/> Vernal Pool/Woodland Pond (Amphibian Breeding)
<input type="checkbox"/> Woodland	<input type="checkbox"/> Burrow	<input type="checkbox"/> Sand (Turtle Nesting)
<input type="checkbox"/> Valley	<input type="checkbox"/> Den	<input type="checkbox"/> Fine/Sandy Gravel (Turtle Nesting)
<input type="checkbox"/> (Describe Below)	<input type="checkbox"/> Tree Cavity	
<input type="checkbox"/> Headwater Area	<input checked="" type="checkbox"/> Fallen Log	<b>Invertebrates</b>
<small>(check for Seeps/Springs)</small>		<input type="checkbox"/> Crayfish Chimney
	<b>Deer/Moose</b>	
	<input type="checkbox"/> Seep/Spring	
	<input type="checkbox"/> Mineral Lick	

**For every Habitat Type or Habitat Feature, record UTM below (for each occurrence) or mark on map**

Habitat Feature:	UTM	Description
Rock Pile	17T 0446078 4762782	~2m <sup>2</sup> rock pile
Fallen Rotting Log	several throughout	varying sizes, max = 35cm dbh
Fallen logs	"	"
Snags	17T 0446078 4762863	2 snags, one with cavity

Describe Valley (depth, geomorphological traits):

Additional Details:

**Wildlife Observation Form**  
 NATURAL RESOURCE SOLUTIONS INC.

Page 1 of 1

Site: 1250 - Adelaide  
 Polygon: W60-006  
 UTM:  
 Date: 21 July 2011 Time: 13:15  
 Surveyor(s): KNP, AMD  
 Weather: 35°C, 50% cloud cover, windspeed 5 SW

Species Observed					Check for Wildlife Habitat that may be associated with an observation				
TY	Species	EV	Notes	#	TY	Species	EV	Notes	#
L	Monarch	OB	in flight	3					
B	Unidentified 1	VO		1					
L	Cabbage White	OB	in flight	1					
L	Unidentified 2	OB	see photos	3					
B	Blue Jay	VO		2					

Faunal Type Codes (TY)  
 B=Bird M=Mammal H=Herpetofauna L=Lepidoptera F=Fish D=Dragonfly or Damselfly

- Evidence Codes (EV)  
**Breeding Birds**  
 SH- Suitable Habitat  
 SM- Singing Male  
 T- Territory  
 A- Anxiety Behavior  
 D- Courtship Display  
 N- Nest Building  
 P- Pair  
 V- Visiting Nest  
 DD- Distraction Display  
 NE- Nest with Eggs  
 AE-Adult entering nest  
 NU- Used nest  
 FY- Fledged Young  
 FS- Food/Fecal Sac

- Other Wildlife**  
 OB- Observed  
 DP- Distinctive Parts  
 TK- Tracks  
 VO- Vocalization  
 HO- House/Den  
 FE- Feeding Evidence  
 CA- Carcass/Bones  
 FY- Eggs or young  
 SC- Scat  
 SI- Other Signs (Specify)

# NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

Page 1 of 2

Site: See page 2.  
 Polygon:  
 UTM:  
 Date: Time:  
 Surveyor(s):  
 Weather:

### Community Classification

Vegetation Type: Dry-Fresh White Ash-Hardwood Decid forest (F00M4-2)  
 Inclusion: none  
 Complex:

### Polygon Description

System	Substrate	Topo Feature	Community
<input checked="" type="checkbox"/> Terrestrial	Organic	Lacustrine	Lake
<input type="checkbox"/> Wetland	<input checked="" type="checkbox"/> Mineral Soil	Riverine	Pond
<input type="checkbox"/> Aquatic	Parent Min	Bottomland	River
	Acidic Bedrock	Terrace	Stream
	Basic Bedrock	Valley Slope	Marsh
<b>History</b>	Carb. Bedrock	<input checked="" type="checkbox"/> Tableland	Swamp
<input checked="" type="checkbox"/> Natural		Roll. Upland	Fen
<input type="checkbox"/> Cultural		Cliff	Bog
			Plantation
<b>Cover</b>	Open Water	<b>Plant Form</b>	
<input type="checkbox"/> Open	Shallow Water	Plankton	Forb
<input type="checkbox"/> Shrub	<input checked="" type="checkbox"/> Surficial Dep.	Submerged	Lichen
<input checked="" type="checkbox"/> Treed	Bedrock	Floating-Lvd.	Bryophyte
		Graminoid	<input checked="" type="checkbox"/> Deciduous

### Stand Description

Layer	HT	Cover	Species
* Super-canopy			
1 Canopy	1	3	wh. ash > burr oak >> wh. elm
2 Sub-canopy	2	4	wh. ash = ironwood = wh. elm > basswood
3 Understorey	3/4	4	black maple = sugar maple = basswood = ironwood
4 Groundcover	5-7	2	virginia creeper = poison ivy > wild geranium

HT Codes: 1: >25m 2: 25-10m 3: 10-2m 4: 2-1m 5: 1-0.5m 6: 0.5-0.2m 7: <0.2m  
 Cover Codes: 0: none 1: 0-10% 2: 10-25 3: 25-60% 4: >60%

Size Class Analysis	A	< 10	A	10-24	A	25-50	R	> 50
Snags	O	< 10	A	10-24	A	25-50	N	> 50
Deadfall/Logs	A	< 10	A	10-24	O	25-50	R	> 50

Abundance Codes: N: None R: Rare O: Occasional A: Abundant

Community Age	Pioneer	Young	<input checked="" type="checkbox"/> Mid-age	Mature	Old Growth
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# NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

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### PLANT SPECIES LIST

Site: Adelaide WF  
 Polygon: WOD-007  
 UTM: 17T 0446298 4762826  
 Date: July 21/11 Time: 14:00  
 Surveyor(s): AMO, KNP  
 Weather: Sunny w cloudy periods humid 35°C wind 3 from SW  
 c.c. 50%

Layers: 1=canopy 2=sub-canopy 3=understorey 4=ground layer

Abundance Codes: R=rare O=occasional A=abundant D=dominant

Species	Layer				Sample	Species	Layer				Sample
	1	2	3	4			1	2	3	4	
bitterhick.			R	R		prch. nightshade				O	
ironwood		A	A			euonymus alata				A	
basswood		O	A			hellebore				R	
wh. elm	R	A				jack pulp				O	
hawthorn sp		R	R			garlic must.				O	
hackberry		R	R			wild geranium				A	
am. beech		O	O	O		ench. nightshade				O	
sugar maple		O	A			poison ivy				A	
shagbark		O	O	O		summer alope				R	
exotic horehuckle				R		virginia creeper				A	
wh. ash	D	A									
ribes cuneifol.				R							
black maple			A								
choke cherry			A								
burr oak	A	O									
blue beech			O	O							

### Other Notes (Landowner Contact, General Notes, etc.)

- appears to be significant understory browsing by deer  
 - many snags on-site w and w out cavities  
 - significant habitat features throughout polygon.  
 - deer heard

Site:	12 - Adelaide	
Polygon:	3000 - 007	
UTM:		
Date:	21 July 2011	Time: 14:15
Surveyor(s):	KNP AMD	
Weather:	35°C, Cloud cover 60% Windspeed 3 from SW	

**Wildlife Habitat (Check all that apply AND record UTM / mark on map)**

*\*Habitats and Habitat Features are independent of wildlife observations\**

Habitat Type	Habitat Features	
<input type="checkbox"/> Deciduous Forest	<b>Birds</b>	<b>Snakes</b>
<input type="checkbox"/> Mixed Forest	<input type="checkbox"/> Spring Flooded Field	<input checked="" type="checkbox"/> Burrow
<input type="checkbox"/> Coniferous Forest	<input type="checkbox"/> Stick Nest (Raptors, Herons)	<input checked="" type="checkbox"/> Fallen Rotting Log
<input type="checkbox"/> Marsh	<input checked="" type="checkbox"/> Snag (Raptors, Herons)	<input type="checkbox"/> Old Well
<input type="checkbox"/> Swamp	<input type="checkbox"/> Tree Cavity Nest (Ducks)	<input type="checkbox"/> Rock Pile/Stone Wall
<input type="checkbox"/> Bog	<input type="checkbox"/> Seep/Spring (Turkeys/Grouse)	<input type="checkbox"/> Organics Pile
<input type="checkbox"/> Fen	<input type="checkbox"/> Cliffs/Banks	<input checked="" type="checkbox"/> Log Pile
<input type="checkbox"/> Water	<b>Bats</b>	<input type="checkbox"/> Karst
<input type="checkbox"/> (Shallow & Open)	<input type="checkbox"/> Cave Entrance	<input type="checkbox"/> Broken/Fissured Rock
<input type="checkbox"/> Meadow	<input type="checkbox"/> Mine Shaft	<input type="checkbox"/> Old Foundation
<input type="checkbox"/> Tallgrass Prairie	<input checked="" type="checkbox"/> Snag (>20cm DBH)	<input type="checkbox"/> Old Bridge/Concrete Culvert
<input type="checkbox"/> Thicket	<b>Mink/Otter/Fisher/Marten</b>	<b>Amphibians and Turtles</b>
<input type="checkbox"/> Savannah	<input checked="" type="checkbox"/> Snag	<input type="checkbox"/> Vernal Pool/Woodland Pond (Amphibian Breeding)
<input type="checkbox"/> Woodland	<input checked="" type="checkbox"/> Burrow	<input type="checkbox"/> Sand (Turtle Nesting)
<input type="checkbox"/> Valley	<input type="checkbox"/> Den	<input type="checkbox"/> Fine/Sandy Gravel (Turtle Nesting)
<input type="checkbox"/> (Describe Below)	<input checked="" type="checkbox"/> Tree Cavity	
<input type="checkbox"/> Headwater Area	<input checked="" type="checkbox"/> Fallen Log	<b>Invertebrates</b>
<input type="checkbox"/> (check for Seeps/Springs)	<b>Deer/Moose</b>	<input type="checkbox"/> Crayfish Chimney
	<input type="checkbox"/> Seep/Spring	
	<input type="checkbox"/> Mineral Lick	

**For every Habitat Type or Habitat Feature, record UTM below (for each occurrence) or mark on map**

Habitat Feature:	UTM	Description
Snag	Several small snags	without cavities throughout (< 20cm dbh)
Snag	177 0446217 4762853	~35cm dbh in cavity ~ 5.5m tall
Snag	177 0446227 4762876	~30cm dbh in cavity ~ 3m tall
Snag	177 0446233 4762861	~35cm dbh in cavity ~ 5.5m tall
Snag	177 0446262 4762867	~30cm dbh in cavity ~ 5.5m tall
Tree Cavity	177 0446268 4762866	40cm long ~ 5cm wide opening to large cavity
Log piles	177 0446282 4762845	2 log piles (see photos)
Burrow	177 0446289 4762829	burrow into ground, opening ~ 7cm diameter
Snag	177 0446297 4762827	~30cm dbh in cavity ~ 4m tall
Tree Cavity	177 0446375 4762842	~60cm diameter in several cavities
Fallen rotting log	several throughout	with various sizes < 20 - 50cm dbh
Fallen rotting logs	" " " "	" " " "

Describe Valley (depth, geomorphological traits):

Additional Details:

**Wildlife Observation Form**  
**NATURAL RESOURCE SOLUTIONS INC.**

Site: 1530 Adelaide  
 Polygon: WOD-007  
 UTM:  
 Date: 21 July 2011 Time: 14:15  
 Surveyor(s): KNP, AMP  
 Weather: 35°C, cloud cover 60%, windspeed 3 from SW

Species Observed					Check for Wildlife Habitat that may be associated with an observation				
TY	Species	EV	Notes	#	TY	Species	EV	Notes	#
B	Golden Finch	OB	on edge	1					
B	Unknown 1	VO		1					
B	Unknown 2	OB	br. sparrow rusty	4					
L	Cabbage white	OB		2					
M	Deer	OB	TK (old)	1					
L	monarch	OB		1					
B	Robin	VO	+ OB	3					

Faunal Type Codes (TY)  
 B=Bird M=Mammal H=Herpetofauna L=Lepidoptera F=Fish D=Dragonfly or Damselfly

Evidence Codes (EV)  
**Breeding Birds**  
 SH- Suitable Habitat  
 SM- Singing Male  
 T- Territory  
 A- Anxiently Behavior  
 D- Courtship Display  
 N- Nest Building  
 P- Pair  
 V- Visiting Nest  
 DD- Distraction Display  
 NE- Nest with Eggs  
 AE-Adult entering nest  
 NU- Used nest  
 FY- Fledged Young  
 FS- Food/Fecal Sac

**Other Wildlife**  
 OB- Observed  
 DP- Distinctive Parts  
 TK- Tracks  
 VO- Vocalization  
 HO- House/Den  
 FE- Feeding Evidence  
 CA- Carcass/Bones  
 FY- Eggs or young  
 SC- Scat  
 SI- Other Signs (Specify)

Site: \_\_\_\_\_  
 Polygon: See page 2  
 UTM: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Surveyor(s): \_\_\_\_\_  
 Weather: \_\_\_\_\_

Community Classification

Vegetation Type: Dry-Fresh Sugar Maple-Oak Decid. forest (FODM5-3)  
 Inclusion: none  
 Complex: \_\_\_\_\_

Polygon Description

System	Substrate	Topo Feature	Community
<input checked="" type="checkbox"/> Terrestrial	Organic	Lacustrine	Lake
<input type="checkbox"/> Wetland	<input checked="" type="checkbox"/> Mineral Soil	Riverine	Pond
<input type="checkbox"/> Aquatic	Parent Min.	Bottomland	River
	Acidic Bedrock	Terrace	Stream
	Basic Bedrock	Valley Slope	Marsh
<input checked="" type="checkbox"/> Natural	Carb. Bedrock	<input checked="" type="checkbox"/> Tableland	Swamp
<input type="checkbox"/> Cultural		Roll. Upland	Fen
		Cliff	Bog

Cover	Open Water	Plant Form
<input type="checkbox"/> Open	Shallow Water	Plankton
<input type="checkbox"/> Shrub	<input checked="" type="checkbox"/> Surficial Dep.	Submerged
<input checked="" type="checkbox"/> Treed	Bedrock	Floating-Lvd.
		Graminoid

Stand Description

Layer	HT	Cover	Species
* Super-canopy			
1 Canopy	1	2	sugar maple = wh. ash > burr oak = red oak > red maple
2 Sub-canopy	2	3	sugar maple > basswood > am. beech
3 Understorey	3/4	3	sugar maple = wh. ash = basswood > am. beech = ironwood
4 Groundcover	5/7	4	wh. ash = basswood > wild geranium

HT Codes: 1: >25m 2: 25-10m 3: 10-2m 4: 2-1m 5: 1-0.5m 6: 0.5-0.2m 7: <0.2m  
 Cover Codes: 0:none 1: 0-10% 2: 10-25 3: 25-60% 4: >60%

Size Class Analysis	A < 10	A 10-24	O 25-50	R > 50
Snags	O < 10	O 10-24	A 25-50	N > 50
Deadfall/Logs	A < 10	A 10-24	O 25-50	R > 50

Abundance Codes: N: None R: Rare O: Occasional A: Abundant

Community Age: Pioneer  Young   Mid-age Mature  Old Growth

PLANT SPECIES LIST

Site: Adelaide WF  
 Polygon: W0D-008  
 UTM: 17T 0442014 4763099  
 Date: July 22/11 Time: 09:30  
 Surveyor(s): AMD, KNP  
 Weather: Sunny 26°C wind 1 from SW C.C. 40%

Layers: 1=canopy 2=sub-canopy 3=understorey 4=ground layer

Abundance Codes: R=rare O=occasional A=abundant D=dominant

Species	Layer				Sample	Species	Layer				Sample
	1	2	3	4			1	2	3	4	
burr oak	A	O	O			poison ivy					D
basswood	R	A	A	A		jewelweed					R
hophorn sp.		R	R			fringed loosestrife					A
ironwood		O	A			enchianthus					A
wh. elm	R	O	O			virginia creeper					D
wh. ash	A	O	O	A		aster sp.					A
am. beech	O	O	A			garlic mustard					O
* sugar maple	D	A	A			wild strawberry					O
stag hick			R	R		wild geranium					D
black maple		R	R			wh. avena					O
chokecherry			O			sun thistle					R
high ash chen				R		ostrich fern					R
red oak	A	O	O			sensitive fern					R
ribes americanum				O		carex sp.					R
red maple	O	O	O			red raspberry					R
black cherry	R	R				yellow avena					O
						mohawort					R
						wood sorrel					R
						jack pulp					R
						willow herb					R
						evonymus alatum					O
						xmas fern					R

Other Notes (Landowner Contact, General Notes, etc.)

- woodlot appears somewhat managed by landowner - cut trees throughout  
 - trail cut through woodlot running roughly E-W  
 - deer tracks seen

Site: 1230 - Adelaide  
 Polygon: W00-008  
 UTM:  
 Date: 22 July 2011 Time: 9:30 am  
 Surveyor(s): KNP, AMD  
 Weather: 26°C, cloud cover 40%, windspeed 1 from SW

**Wildlife Habitat (Check all that apply AND record UTM / mark on map)**  
*\*Habitats and Habitat Features are independent of wildlife observations\**

Habitat Type	Habitat Features	
<input checked="" type="checkbox"/> Deciduous Forest	<b>Birds</b>	<b>Snakes</b>
<input type="checkbox"/> Mixed Forest	<input type="checkbox"/> Spring Flooded Field	<input type="checkbox"/> Burrow
<input type="checkbox"/> Coniferous Forest	<input type="checkbox"/> Stick Nest (Raptors, Herons)	<input checked="" type="checkbox"/> Fallen Rotting Log
<input type="checkbox"/> Marsh	<input checked="" type="checkbox"/> Snag (Raptors, Herons)	<input type="checkbox"/> Old Well
<input type="checkbox"/> Swamp	<input type="checkbox"/> Tree Cavity Nest (Ducks)	<input type="checkbox"/> Rock Pile/Stone Wall
<input type="checkbox"/> Bog	<input type="checkbox"/> Seep/Spring (Turkeys/Grouse)	<input type="checkbox"/> Organics Pile
<input type="checkbox"/> Fen	<input type="checkbox"/> Cliffs/Banks	<input type="checkbox"/> Log Pile
<input type="checkbox"/> Water	<b>Bats</b>	<input type="checkbox"/> Karst
<input type="checkbox"/> (Shallow & Open)	<input type="checkbox"/> Cave Entrance	<input type="checkbox"/> Broken/Fissured Rock
<input type="checkbox"/> Meadow	<input type="checkbox"/> Mine Shaft	<input type="checkbox"/> Old Foundation
<input type="checkbox"/> Tallgrass Prairie	<input checked="" type="checkbox"/> Snag (>20cm DBH)	<input type="checkbox"/> Old Bridge/Concrete Culvert
<input type="checkbox"/> Thicket	<b>Mink/Otter/Fisher/Marten</b>	<b>Amphibians and Turtles</b>
<input type="checkbox"/> Savannah	<input checked="" type="checkbox"/> Snag	<input type="checkbox"/> Vernal Pool/Woodland Pond (Amphibian Breeding)
<input type="checkbox"/> Woodland	<input type="checkbox"/> Burrow	<input type="checkbox"/> Sand (Turtle Nesting)
<input type="checkbox"/> Valley	<input type="checkbox"/> Den	<input type="checkbox"/> Fine/Sandy Gravel (Turtle Nesting)
<input type="checkbox"/> (Describe Below)	<input checked="" type="checkbox"/> Tree Cavity	<b>Invertebrates</b>
<input type="checkbox"/> Headwater Area	<input checked="" type="checkbox"/> Fallen Log	<input type="checkbox"/> Crayfish Chimney
<input type="checkbox"/> (check for Seeps/Springs)	<b>Deer/Moose</b>	
	<input type="checkbox"/> Seep/Spring	
	<input type="checkbox"/> Mineral Lick	

**For every Habitat Type or Habitat Feature, record UTM below (for each occurrence) or mark on map**

Habitat Feature:	UTM	Description
Fallen rotting log	several locations throughout	various sizes 10-50cm dbh
Fallen log		
snags > 20cm dbh		no cavities
snag	17T 0442012 4763097	* 25cm dbh, ~10m tall several cavities
snag	17T 0442032 4763085	* 30cm dbh, snag separates in 2 lat. branches at breast height, each with cavities
Tree cavity	17T 0441941 4763079	cavity @ 2m where trunk branches
Tree cavity	17T 0441903 4763107	several cavities along split in trunk
snag	17T 0441898 4763147	* 50cm dbh, ~12m tall w/ cavities around top 3m
* potential vernal pool areas throughout site but features were not definitive enough to confirm their existence		

Describe Valley (depth, geomorphological traits):

**Additional Details:**

- Several locations with loosely piled brush (see photos)
- Evidence of logging (see photos)

**Wildlife Observation Form**  
**NATURAL RESOURCE SOLUTIONS INC.**

Site: 1230 - Adelaide
Polygon: WGD - 008
UTM:
Date: 22 July 2011 Time: 9:30am
Surveyor(s): KNP, AMD
Weather: 26°C, Cloud cover 40%, windspeed 1 from SW

Species Observed					Check for Wildlife Habitat that may be associated with an observation				
TY	Species	EV	Notes	#	TY	Species	EV	Notes	#
B	Gold Finch	OB	pair by edge	2					
L	Cabbage white	OB		3					
L	Sulphur	OB	by edge	2					
M	Deer	TK		1					
B	Blue Jay	VO		2					
B	Red wing Blackbird	VO		2					
B	Sparrow sp.	OB	by edge	5					
B	Pewee	VO		2					
L	Monarch	OB		1					
	unidentified								
*	5+ Y bird sp.		actively vocalizing	1-3 of each sp.					

**Faunal Type Codes (TY)**  
 B=Bird M=Mammal H=Herpetofauna L=Lepidoptera F=Fish D=Dragonfly or Damselfly

- Evidence Codes (EV)**
- Breeding Birds**
  - SH- Suitable Habitat
  - SM- Singing Male
  - T- Territory
  - A- Anxienty Behavior
  - D- Courtship Display
  - N- Nest Building
  - P- Pair
  - V- Visiting Nest
  - DD- Distraction Display
  - NE- Nest with Eggs
  - AE-Adult entering nest
  - NU- Used nest
  - FY- Fledged Young
  - FS- Food/Fecal Sac
- Other Wildlife**
  - OB- Observed
  - DP- Distinctive Parts
  - TK- Tracks
  - VO- Vocalization
  - HO- House/Den
  - FE- Feeding Evidence
  - CA- Carcass/Bones
  - FY- Eggs or young
  - SC- Scat
  - SI- Other Signs (Specify)



Site: See page 2.  
 Polygon:  
 UTM:  
 Date: Time:  
 Surveyor(s):  
 Weather:

Community Classification

Vegetation Type: Dry - Fresh Oak - Hardwood Decid. forest (FOD M2-4)  
 Inclusion: open aquatic (< 2m deep, woodland pool)  
 Complex:

Polygon Description

System	Substrate	Topo Feature	Community
<input checked="" type="checkbox"/> Terrestrial	Organic	Lacustrine	Lake
<input type="checkbox"/> Wetland	<input checked="" type="checkbox"/> Mineral Soil	Riverine	<input checked="" type="checkbox"/> Pond
<input type="checkbox"/> Aquatic	Parent Min.	Bottomland	River
	Acidic Bedrock	Terrace	Stream
	Basic Bedrock	Valley Slope	Marsh
<input checked="" type="checkbox"/> Natural	Carb. Bedrock	<input checked="" type="checkbox"/> Tableland	Swamp
<input type="checkbox"/> Cultural		Roll. Upland	Fen
	Site	Cliff	<input checked="" type="checkbox"/> Forest
			Bog
			Plantation

  

Cover	Plant Form
<input type="checkbox"/> Open	Open Water
<input type="checkbox"/> Shrub	Shallow Water
<input checked="" type="checkbox"/> Treed	<input checked="" type="checkbox"/> Surficial Dep.
	Bedrock
	Plankton
	Submerged
	Floating-Lvd.
	Graminoid
	Forb
	Lichen
	Bryophyte
	<input checked="" type="checkbox"/> Deciduous
	Coniferous
	Mixed

Stand Description

Layer	HT	Cover	Species
* Super-canopy			
1 Canopy	1	3	bur oak = wh. ash > wh. elm = shag. hick.
2 Sub-canopy	2	3	wh. ash > bur oak > shag. hick
3 Understorey	3/4	4	shag. hick > ironwood = am. beech
4 Groundcover	5-7	4	wild geranium > wh. ash > goldenrod sp. = aster sp.

HT Codes: 1: >25m 2: 25-10m 3: 10-2m 4: 2-1m 5: 1-0.5m 6: 0.5-0.2m 7: <0.2m  
 Cover Codes: 0: none 1: 0-10% 2: 10-25 3: 25-60% 4: >60%

Size Class Analysis	A < 10	A 10-24	A 25-50	R > 50
Snags	R < 10	O 10-24	O 25-50	N > 50
Deadfall/Logs	A < 10	O 10-24	A 25-50	N > 50

Abundance Codes: N: None R: Rare O: Occasional A: Abundant

Community Age	Pioneer	Young	<input checked="" type="checkbox"/> Mid-age	Mature	Old Growth
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PLANT SPECIES LIST

Site: Adelaide WF  
 Polygon: W0N-009  
 UTM: 17T 0438222 4757980  
 Date: July 22/11 Time: 12:30  
 Surveyor(s): AMD, KNP  
 Weather: Sunny w cloudy periods, 30°C, wind 3 from SW, C.C. 70%

Layers: 1=canopy 2=sub-canopy 3=understorey 4=ground layer

Abundance Codes: R=rare O=occasional A=abundant D=dominant

Species	Layer				Sample	Species	Layer				Sample	
	1	2	3	4			1	2	3	4		
am. beech		A	A			reed canary grass					O	
basswood			O	O		summer grape						R
wh. elm	R					goldenrod sp.						A
manitoba maple			R	R		virginia creeper						A
gray dogwood				O		red raspberry						O
bur oak	D	A				poison ivy						A
wh. ash	D	D		A		ench. nightshade						A
silver maple			R	R		agrimony						A
hawthorn sp.			O	O		milkweed sp.						O
ironwood		A	A			wild geranium						O
vib. americanum				A		wh. avens						O
black cherry			O	O		herb robert						O
<del>swamp maple</del>						carthagenian						R
blake beech				R		jewelweed						R
hickory			R	R		philadelphia fleckstone						R
choke cherry			O	O		viola sp.						R
swamp maple			R	R	R	anemone obanata						R
shag. hick.	R	D				cardx sp.						R
						rosa sp.						R
						aster sp.						A
						swamp milkweed						R
						reed canary grass						O
						water plantain						O

} open water area

Other Notes (Landowner Contact, General Notes, etc.)

- hawk heard abundantly  
 - lots of dead wh. ash  
 - nest of ground nesting bird.



# NATURAL RESOURCE SOLUTIONS INC.

Aquatic, Terrestrial and Wetland Biologists

## Wetland Vegetation Communities

Project Name: Adelaide Project #: 1230

Observer(s): PWD, KNP

Date: Sept. 29, 2011 Time (24h): 13:05

Field #: W05009 Weather: Precipitation: None Temp (°C): 18

Map Code: Wind Speed & Direction: 3/W Cloud %: 20

Wetland Type: Pond (Anthro) Site Type: Palustrine Dominant Form: Open water

% Open Water: 90 ELC Code: Open Aquatic (OA)

Photos: 0530

Forms % (Circle those ≥25%)	Species (dominant species, secondary species, present species)
h	—
c	—
dc, dh, ds	—
ts	<u>Silky Dogwood 5%</u>
ls	<u>Silky Dogwood 5%</u>
gc	<u>Coddebur 5% Black Nettle 5% Reed Canary 5% Rice Cut Grass 5%</u>
ne	—
be	<u>Water Plantain &lt;5%</u>
re	—
ff	<u>Lesser Duckweed 10%</u>
f	—
su	—
m	—

Soil type: s Organic  Mineral

<b>Rare Species (Local, Regional, Provincial):</b> <u>Pink Milkweed (on berm)</u>	<b>Wildlife Notes:</b> <u>(2) Mallard</u> <u>Wood Frog</u> <u>White-tailed Deer TK, SC</u> <u>Tadpoles</u> <u>Raccoon TK</u> <u>B.C. Chickadee</u> <u>Downy Woodpecker</u> <u>Monarch</u>
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SAR observations must also include a specific UTM location.

Forms: h=deciduous trees; c=coniferous trees; dh, dc, ds=dead trees/shrubs; ts=tall shrubs; ls=low shrubs; gc=ground cover; ne=narrow emergents; be=broad emergents; f=floating plants; ff=free-floating plants; su=submerged plants; m=mosses

Wetland Type: S=swamp; M=marsh; B=bog; F=fen

Site Type: L=lacustrine; P=palustrine; R=riverine; IS=isolated

Soil type: cl=clay/loam; sl=silt/loam; l=limestone; s=sand; hm=humic/mesic; f=fibric; g=granite Organic=>60cm depth over mineral (>10cm over bedrock) Mineral=<60cm depth over mineral

**Wildlife Habitat Form**  
**NATURAL RESOURCE SOLUTIONS INC.**

Site: 1230 - Adelaide  
 Polygon: WAD-009  
 UTM:  
 Date: 22 July 2011 Time: 12:30  
 Surveyor(s): KNP, AMD  
 Weather: 35°C, cloud cover 70%, wind speed 3 from SW

**Wildlife Habitat (Check all that apply AND record UTM / mark on map)**  
*\*Habitats and Habitat Features are independent of wildlife observations\**

Habitat Type	Habitat Features	
<input checked="" type="checkbox"/> Deciduous Forest	<b>Birds</b>	<b>Snakes</b>
<input type="checkbox"/> Mixed Forest	<input type="checkbox"/> Spring Flooded Field	<input type="checkbox"/> Burrow
<input type="checkbox"/> Coniferous Forest	<input type="checkbox"/> Stick Nest (Raptors, Herons)	<input checked="" type="checkbox"/> Fallen Rotting Log
<input type="checkbox"/> Marsh	<input checked="" type="checkbox"/> Snag (Raptors, Herons)	<input type="checkbox"/> Old Well
<input type="checkbox"/> Swamp	<input type="checkbox"/> Tree Cavity Nest (Ducks)	<input type="checkbox"/> Rock Pile/Stone Wall
<input type="checkbox"/> Bog	<input type="checkbox"/> Seep/Spring (Turkeys/Grouse)	<input type="checkbox"/> Organics Pile
<input type="checkbox"/> Fen	<input type="checkbox"/> Cliffs/Banks	<input type="checkbox"/> Log Pile
<input type="checkbox"/> Water	<b>Bats</b>	<input type="checkbox"/> Karst
<input type="checkbox"/> (Shallow & Open)	<input type="checkbox"/> Cave Entrance	<input type="checkbox"/> Broken/Fissured Rock
<input type="checkbox"/> Meadow	<input type="checkbox"/> Mine Shaft	<input type="checkbox"/> Old Foundation
<input type="checkbox"/> Tallgrass Prairie	<input checked="" type="checkbox"/> Snag (>20cm DBH)	<input type="checkbox"/> Old Bridge/Concrete Culvert
<input type="checkbox"/> Thicket	<i>4 no good cavities</i>	
<input type="checkbox"/> Savannah	<b>Mink/Otter/Fisher/Marten</b>	<b>Amphibians and Turtles</b>
<input type="checkbox"/> Woodland	<input checked="" type="checkbox"/> Snag	<input checked="" type="checkbox"/> Vernal Pool/Woodland Pond (Amphibian Breeding)
<input type="checkbox"/> Valley	<input type="checkbox"/> Burrow	<input type="checkbox"/> Sand (Turtle Nesting)
<input type="checkbox"/> (Describe Below)	<input type="checkbox"/> Den	<input type="checkbox"/> Fine/Sandy Gravel (Turtle Nesting)
<input type="checkbox"/> Headwater Area	<input checked="" type="checkbox"/> Tree Cavity	
<small>(check for Seeps/Springs)</small>	<input checked="" type="checkbox"/> Fallen Log	<b>Invertebrates</b>
	<b>Deer/Moose</b>	<input type="checkbox"/> Crayfish Chimney
	<input type="checkbox"/> Seep/Spring	
	<input type="checkbox"/> Mineral Lick	

**For every Habitat Type or Habitat Feature, record UTM below (for each occurrence) or mark on map**

Habitat Feature:	UTM	Description
Tree Cavity	17T 0438195 4758051	~60cm dbh, >25m tall cavity ~3m from ground
Debris	17T 0438192 4758040	potential snake habitat (see photos)
Woodland pool	17T 0438190 4758033	~10m radius, ~50cm max depth
Snag	17T 0438206 4757996	Bat 003
Snags	several locations	no cavities, dbh 10-35cm
Fallen logs	several locations	diameter < 10cm - 40cm
Fallen rotting logs	several locations	" < 10cm - 35cm
Nest site?	17T 0438210 4757980	ground nests? see photos

Describe Valley (depth, geomorphological traits):

Additional Details:





# NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

Page 1 of 4

# NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

Page 2 of 4

## PLANT SPECIES LIST

Site: 1230 Adelaide  
 Polygon: W00 010  
 UTM: 17T 0437376 476 0155  
 Date: Aug 17/11 Time: 11:56  
 Surveyor(s): Charlotte M, Kathleen P  
 Weather: 28°C, Sunny, Cl. 20%, Wind 2-3, no precip.

Community Classification: Fresh-moist

Vegetation Type:	Sugar Maple-white elm deciduous forest
Inclusion:	forest
Complex:	

FODM6-4

### Polygon Description

System	Substrate	Topo Feature	Community
Terrestrial	Organic	Lacustrine	Talus
Wetland	<input checked="" type="checkbox"/> Mineral Soil	Riverine	Crevice/Cave
Aquatic	Parent Min.	Bottomland	Alvar
	Acidic Bedrock	Terrace	Rockland
History	Basic Bedrock	Valley Slope	Beach/Bar
<input checked="" type="checkbox"/> Natural	Carb. Bedrock	Tableland	Sand Dune
Cultural		<input checked="" type="checkbox"/> Roll. Upland	Bluff
	Site	Cliff	
Cover	Open Water	Plant Form	
Open	Shallow Water	Plankton	Forb
Shrub	<input checked="" type="checkbox"/> Surficial Dep.	Submerged	Lichen
<input checked="" type="checkbox"/> Treed	Bedrock	Floating-Lvd.	Bryophyte
		Graminoid	<input checked="" type="checkbox"/> Deciduous

### Stand Description

Layer	HT	Cover	Species
* Super-canopy	-	-	-
1 Canopy	2	4	Sugar maple > w. elm = w. ash
2 Sub-canopy	3	2	Sugar maple > w. elm = w. ash
3 Understorey	5	1	w. ash > w. elm > raspberry
4 Groundcover	6	3	Poison ivy > wild geranium > wood strawberry

made goldenrod

HT Codes: 1: >25m 2: 25-10m 3: 10-2m 4: 2-1m 5: 1-0.5m 6: 0.5-0.2m 7: <0.2m  
 Cover Codes: 0:none 1: 0-10% 2: 10-25 3: 25-60% 4: >60%

Size Class Analysis	D < 10	A 10-24	R 25-50	K > 50
Snags	R < 10	R 10-24	R 25-50	R > 50
Deadfall/Logs	C < 10	C 10-24	R 25-50	R > 50

Abundance Codes: N: None R: Rare O: Occasional A: Abundant

Community Age	Pioneer	Young	<input checked="" type="checkbox"/> Mid-age	Mature	Old Growth
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Site: 1230 - Adelaide  
 Polygon: W00-010  
 UTM: 17T 0437376 476 0155  
 Date: Aug. 17/11 Time: 11:56  
 Surveyor(s): Charlotte M, Kathleen P  
 Weather: 28°C, Sunny, 20% c.c. - Wind 2-3, no precip.

Layers: 1=canopy 2=sub-canopy 3=understorey 4=ground layer

Abundance Codes: R=rare O=occasional A=abundant D=dominant

Species	Layer				Sample	Species	Layer				Sample
	1	2	3	4			1	2	3	4	
W. Elm	O	O				Poison ivy					A
Sugar Maple	F	O	R			blackberry					R
White Ash	O	O				Canada Goldenrod					R
Am. beech	R	R	R			wild red geranium					R
Hop-hornbeam	R					Virginia Creeper					R
Choke cherry			R			garlic mustard					R
Basswood		R	R			Wood Strawberry					O
Freemans maple	R					Jack-in-the-box					R
Shagbark hickory	R					Aster sp.					R
						Herb Robert					O
						Sweetened woodruff					R
						wild geranium					O
						Rasp. sp.					R
						grass sp.					R
						grass sp.					O
						Sensitive fern					R
						Yucca fern					R
						Erigeron strigosus					R

Other Notes (Landowner Contact, General Notes, etc.)

**Wildlife Observation Form**  
NATURAL RESOURCE SOLUTIONS INC.

Page 3 of 4

Site: 1230 - Adelaide  
 Polygon: WOD-110  
 UTM: 17T 0437376 4760155  
 Date: Aug 17, 2011 Time: 11:45  
 Surveyor(s): CM, KNP  
 Weather: 28°C, 20% cloud cover, wind speed 2-3 from SW

Species Observed					Check for Wildlife Habitat that may be associated with an observation				
TY	Species	EV	Notes	#	TY	Species	EV	Notes	#
B	Turkey Vulture	OB		2					
M	Deer	TK	multiple sets	?					
R	Downy Woodpecker	OB		1					
B	Red-tailed Hawk	VO		1					
L	Pieris crescent	OB	edge of wood	1					

**Faunal Type Codes (TY)**

B=Bird M=Mammal H=Herpetofauna L=Lepidoptera F=Fish D=Dragonfly or Damselfly

**Evidence Codes (EV)**

**Breeding Birds**

SH- Suitable Habitat  
 SM- Singing Male  
 T- Territory  
 A- Anxiety Behavior  
 D- Courtship Display  
 N- Nest Building  
 P- Pair  
 V- Visiting Nest  
 DD- Distraction Display  
 NE- Nest with Eggs  
 AE- Adult entering nest  
 NU- Used nest  
 FY- Fledged Young  
 FS- Food/Fecal Sac

**Other Wildlife**

OB- Observed  
 DP- Distinctive Parts  
 TK- Tracks  
 VO- Vocalization  
 HO- House/Den  
 FE- Feeding Evidence  
 CA- Carcass/Bones  
 FY- Eggs or young  
 SC- Scat  
 SI- Other Signs (Specify)

**Wildlife Habitat Form**  
NATURAL RESOURCE SOLUTIONS INC.

Page 4 of 4

Site: 1230 Adelaide  
 Polygon: WOD-110  
 UTM: 17T 0437376 4760155  
 Date: Aug 17, 2011 Time: 11:45  
 Surveyor(s): CM, KNP  
 Weather: 28°C, 20% cloud cover, wind speed 2-3 from SW

**Wildlife Habitat (Check all that apply AND record UTM / mark on map)**  
 \*Habitats and Habitat Features are independent of wildlife observations\*

Habitat Type	Habitat Features
<input checked="" type="checkbox"/> Deciduous Forest	<b>Birds</b>
<input type="checkbox"/> Mixed Forest	<input type="checkbox"/> Spring Flooded Field
<input type="checkbox"/> Coniferous Forest	<input type="checkbox"/> Stick Nest (Raptors, Herons)
<input type="checkbox"/> Marsh	<input checked="" type="checkbox"/> Snag (Raptors, Herons)
<input type="checkbox"/> Swamp	<input type="checkbox"/> Tree Cavity Nest (Ducks)
<input type="checkbox"/> Bog	<input type="checkbox"/> Seep/Spring (Turkeys/Grouse)
<input type="checkbox"/> Fen	<input type="checkbox"/> Cliffs/Banks
<input type="checkbox"/> Water	<b>Bats</b>
(Shallow & Open)	<input type="checkbox"/> Cave Entrance
<input type="checkbox"/> Meadow	<input type="checkbox"/> Mine Shaft
<input type="checkbox"/> Tallgrass Prairie	<input checked="" type="checkbox"/> Snag (>20cm DBH)
<input type="checkbox"/> Thicket	<b>Mink/Otter/Fisher/Marten</b>
<input type="checkbox"/> Savannah	<input checked="" type="checkbox"/> Snag
<input type="checkbox"/> Woodland	<input type="checkbox"/> Burrow
<input type="checkbox"/> Valley	<input type="checkbox"/> Den
(Describe Below)	<input checked="" type="checkbox"/> Tree Cavity
<input type="checkbox"/> Headwater Area	<input checked="" type="checkbox"/> Fallen Log
(check for Seeps/Springs)	<b>Deer/Moose</b>
	<input type="checkbox"/> Seep/Spring
	<input type="checkbox"/> Mineral Lick
	<b>Snakes</b>
	<input type="checkbox"/> Burrow
	<input checked="" type="checkbox"/> Fallen Rotting Log
	<input type="checkbox"/> Old Well
	<input checked="" type="checkbox"/> Rock Pile/Stone Wall
	<input type="checkbox"/> Organics Pile
	<input type="checkbox"/> Log Pile
	<input type="checkbox"/> Karst
	<input type="checkbox"/> Broken/Fissured Rock
	<input type="checkbox"/> Old Foundation
	<input type="checkbox"/> Old Bridge/Concrete Culvert
	<b>Amphibians and Turtles</b>
	<input checked="" type="checkbox"/> Vernal Pool/Woodland Pond (Amphibian Breeding)
	<input type="checkbox"/> Sand (Turtle Nesting)
	<input type="checkbox"/> Fine/Sandy Gravel (Turtle Nesting)
	<b>Invertebrates</b>
	<input type="checkbox"/> Crayfish Chimney

**For every Habitat Type or Habitat Feature, record UTM below (for each occurrence) or mark on map**

Habitat Feature:	UTM	Description
Rock/concrete pile	Pic 100-0946	Fast edge of woodlot, Det Significant
Snag	17T 0437376 4760149	>50cm dbh in cavity Pic 100-0947
vernal pool	Pic 100-0948	~ 7m x 2.5m
Vernal pool	17T 0437376 4760155	~ 12m x 7m Pic #100-0949

Describe Valley (depth, geomorphological traits):

**Additional Details:**

veg sp: wild strawberry wild raspberry, poison ivy, jack in the pulpit,  
 Virginia creeper, geranium sp, hab robot, sensitive fern

tree sp: Elm, ironwood, basswood, Am Beech

# NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

Page 1 of 4

Site: 1230- Adelaide  
 Polygon: WND 011  
 UTM: 17T 0437857 4760165  
 Date: Aug. 17/11 Time: 13:41  
 Surveyor(s): Charlotte M Kaitlyn P  
 Weather: 28°C sunny, c.c. 40% wind 3-4 no precip

Community Classification Dry-fresh

Vegetation Type: Sugar maple Deciduous Woodland WODM4-3  
 Inclusion:  
 Complex:

### Polygon Description

System	Substrate	Topo Feature	Community		
<input checked="" type="checkbox"/> Terrestrial	Organic	Lacustrine	Talus	Lake	Barren
<input type="checkbox"/> Wetland	<input checked="" type="checkbox"/> Mineral Soil	Riverine	Crevicé/Cave	Pond	Meadow
<input type="checkbox"/> Aquatic	Parent Min.	Bottomland	Alvar	River	Prairie
	Acidic Bedrock	Terrace	Rockland	Stream	Thicket
<b>History</b>	Basic Bedrock	Valley Slope	Beach/Bar	Marsh	Savannah
<input checked="" type="checkbox"/> Natural	Carb. Bedrock	<input checked="" type="checkbox"/> Tableland	Sand Dune	Swamp	<input checked="" type="checkbox"/> Woodland
<input type="checkbox"/> Cultural		Roll. Upland	Bluff	Fen	Forest
	Site	Cliff		Bog	Plantation

Cover	Open Water	Plant Form		
<input type="checkbox"/> Open	Shallow Water	Plankton	Forb	Coniferous
<input type="checkbox"/> Shrub	<input checked="" type="checkbox"/> Surficial Dep.	Submerged	Lichen	Mixed
<input checked="" type="checkbox"/> Treed	Bedrock	Floating-Lvd.	Bryophyte	
		Graminoid	<input checked="" type="checkbox"/> Deciduous	

### Stand Description

Layer	HT	Cover	Species
Super-canopy	-	-	-
1 Canopy	2	3	Sugar maple > basswood > w. ash
2 Sub-canopy	3	2	Sugar maple > basswood > w. ash
3 Understorey	5	2	Sugar maple > w. ash > basswood > raspberry
4 Groundcover	6	4	poison ivy > sugar maple > wild geranium > herb robert

HT Codes: 1: >25m 2: 25-10m 3: 10-2m 4: 2-1m 5: 1-0.5m 6: 0.5-0.2m 7: <0.2m  
 Cover Codes: 0: none 1: 0-10% 2: 10-25 3: 25-60% 4: >60%

Size Class Analysis	A < 10	O 10-24	R 25-50	R > 50
Snags	R < 10	R 10-24	R 25-50	R > 50
Deadfall/Logs	A < 10	O 10-24	R 25-50	N > 50

Abundance Codes: N: None R: Rare O: Occasional A: Abundant

Community Age	Pioneer	Young	<input checked="" type="checkbox"/> Mid-age	Mature	Old Growth
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# NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

Page 2 of 4

### PLANT SPECIES LIST

Site: 1230- Adelaide  
 Polygon: WND 011  
 UTM: 17T 0437857 4760165  
 Date: Aug. 17/11 Time: 13:41  
 Surveyor(s): Charlotte M Kaitlyn P  
 Weather: 28°C sunny, c.c. 40% wind 3-4 no precip

Layers: 1=canopy 2=sub-canopy 3=understorey 4=ground layer

Abundance Codes: R=rare O=occasional A=abundant D=dominant

Species	Layer				Sample	Species	Layer				Sample
	1	2	3	4			1	2	3	4	
Eur. Buckthorn	R					poison ivy					A
Glossy Buckthorn	R					wild carrot					R
Basswood	O	R	R			false Solomon's					R
Shagbark Hick.	R					Teasel					R
W. ash	R	R	D			Barren strawberry					R
Sugar maple	A	A	A	O		wood strawberry					R
Hop hound	K	R				yellow wood sorrel					O
Bur Oak	R			R		Dandelion					R
Am. Beech	K	R	R			Goldenrod sp.					R
Black cherry	P					wild red clover					O
						Chicory					R
						Virginia creeper					R
						wild geranium					O
						Grass sp.					R
						Zigzag solenoid					R
						Enchant nightshade					R
						Herb Robert					O
						Violet sp.					O
						Sensitive fern					R
						Venus fern					R
						Jack-in-the-pulpit					R
						Aster sp.					R
						Spotted groundwort					R
						Garlic mustard					R

Other Notes (Landowner Contact, General Notes, etc.)



**Wildlife Observation Form**  
 NATURAL RESOURCE SOLUTIONS INC.

Page 3 of 4

Site: 1230 Adelaide  
 Polygon: WOD-all  
 UTM: 17T 0437857 4760165 Elev: 275m  
 Date: Aug 17, 2011 Time: 13:30  
 Surveyor(s): CM, KNP  
 Weather: 28°C, 50% cloud cover, wind speed 4 from SW

Species Observed					Check for Wildlife Habitat that may be associated with an observation				
TY	Species	EV	Notes	#	TY	Species	EV	Notes	#
I	Pearl Reedcut	OB		2					
L	Monarch	OB		1					
B	Bluejay	VD		2					
H	Am. Toad	OB		1					
L	Carolina Wren	OB		1					

**Faunal Type Codes (TY)**  
 B=Bird M=Mammal H=Herpetofauna L=Lepidoptera F=Fish D=Dragonfly or Damselfly

**Evidence Codes (EV)**  
**Breeding Birds**  
 SH- Suitable Habitat  
 SM- Singing Male  
 T- Territory  
 A- Anxiety Behavior  
 D- Courtship Display  
 N- Nest Building  
 P- Pair  
 V- Visiting Nest  
 DD- Distraction Display  
 NE- Nest with Eggs  
 AE-Adult entering nest  
 NU- Used nest  
 FY- Fledged Young  
 FS- Food/Fecal Sac

**Other Wildlife**  
 OB- Observed  
 DP- Distinctive Parts  
 TK- Tracks  
 VO- Vocalization  
 HO- House/Den  
 FE- Feeding Evidence  
 CA- Carcass/Bones  
 FY- Eggs or young  
 SC- Scat  
 SI- Other Signs (Specify)

**Wildlife Habitat Form**  
 NATURAL RESOURCE SOLUTIONS INC.

Page 4 of 4

6-1-14

Site: 1230 Adelaide  
 Polygon: WOD-all  
 UTM: 17T 0437857 4760165 Elev: 275m  
 Date: Aug 17, 2011 Time: 13:30  
 Surveyor(s): CM, KNP  
 Weather: 28°C, 50% cloud cover, wind speed 4 from SW

**Wildlife Habitat (Check all that apply AND record UTM / mark on map)**  
 \*Habitats and Habitat Features are independent of wildlife observations\*

Habitat Type	Habitat Features
<input checked="" type="checkbox"/> Deciduous Forest	<b>Birds</b>
___ Mixed Forest	___ Spring Flooded Field
___ Coniferous Forest	___ Stick Nest (Raptors, Herons)
___ Marsh	___ Snag (Raptors, Herons)
___ Swamp	___ Tree Cavity Nest (Ducks)
___ Bog	___ Seep/Spring (Turkeys/Grouse)
___ Fen	___ Cliffs/Banks
___ Water	<b>Bats</b>
(Shallow & Open)	___ Cave Entrance
___ Meadow	___ Mine Shaft
___ Tallgrass Prairie	___ Snag (>20cm DBH)
___ Thicket	<b>Mink/Otter/Fisher/Marten</b>
___ Savannah	___ Snag
___ Woodland	___ Burrow
___ Valley	___ Den
(Describe Below)	___ Tree Cavity
___ Headwater Area	<input checked="" type="checkbox"/> Fallen Log
(check for Seeps/Springs)	<b>Deer/Moose</b>
	___ Seep/Spring
	___ Mineral Lick

Habitat Feature:	UTM	Description
Rock pile	17T 0437324 4760099	~ 3m x 2m Pic # 100-0950
Rock pile	17T 0437850 4760174	~ 6.5m x 4m Pic # 100-0951
Vernal pool	Pic # 100-0951	~ 3m x 2m

Describe Valley (depth, geomorphological traits):

**Additional Details:**  
 Ground cover: raspberry, poison ivy, garlic mustard, false Solomon's seal, dewweed, Virginia creeper, sensitive fern, Carex sp, herb robert, strawberry, jack in pulpit, Christmas fern, zig-zag golden rod.  
 Canopy: Basswood, Am Beech, maple, black cherry, shag bark hickory.

# NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

Page 1 of 4

Site: 1230-Adelaide  
 Polygon: W00-012  
 UTM:  
 Date: Aug. 17/11 Time: 15:02  
 Surveyor(s): Charlotte M Kaitlyn P  
 Weather: 27°C, cloudy, wind 3-4, C.C. 60%, no precip.

Community Classification: Dry Fresh  
 Vegetation Type: Sugar Maple deciduous Woodland W00M4-3  
 Inclusion:  
 Complex:

### Polygon Description

System	Substrate	Topo Feature	Community
<input checked="" type="checkbox"/> Terrestrial	Organic	Lacustrine	Talus
<input type="checkbox"/> Wetland	<input checked="" type="checkbox"/> Mineral Soil	Riverine	Crevice/Cave
<input type="checkbox"/> Aquatic	Parent Min.	Bottomland	Alvar
	Acidic Bedrock	Terrace	Rockland
	Basic Bedrock	Valley Slope	Beach/Bar
<b>History</b>	Carb. Bedrock	<input checked="" type="checkbox"/> Tableland	Sand Dune
<input checked="" type="checkbox"/> Natural		Roll, Upland	Bluff
<input type="checkbox"/> Cultural		Cliff	
	Site		
<b>Cover</b>	Open Water	<b>Plant Form</b>	
<input type="checkbox"/> Open	Shallow Water	Plankton	Forb
<input type="checkbox"/> Shrub	<input checked="" type="checkbox"/> Surficial Dep.	Submerged	Lichen
<input checked="" type="checkbox"/> Treed	Bedrock	Floating-Lvd.	Bryophyte
		Graminoid	<input checked="" type="checkbox"/> Deciduous

### Stand Description

Layer	HT	Cover	Species
* Super-canopy	1	—	—
1 Canopy	2	3	Sugar maple > basswood > w. ash > hop horn beam
2 Sub-canopy	3	2	Sugar maple > w. ash > Am. beech > blue beech
3 Understorey	4	1	Sugar maple > basswood > w. ash > pignut hickory
4 Groundcover	6	4	Poison ivy > vir. creeper > goldenrod sp. > wild geranium

HT Codes: 1: >25m 2: 25-10m 3: 10-2m 4: 2-1m 5: 1-0.5m 6: 0.5-0.2m 7: <0.2m  
 Cover Codes: 0:none 1:0-10% 2:10-25 3:25-60% 4:>60%

Size Class Analysis	A	A	O	R
< 10	< 10	10-24	25-50	> 50
Snags	0	10-24	25-50	> 50
Deadfall/Logs	A	10-24	25-50	> 50

Abundance Codes: N: None R: Rare O: Occasional A: Abundant

Community Age: Pioneer  Young   Mid-age  Mature  Old Growth

# NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

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### PLANT SPECIES LIST

Site: 1230-Adelaide  
 Polygon: W00-012  
 UTM: 17T 0440882 4760140  
 Date: Aug. 17/11 Time: 15:02  
 Surveyor(s): Charlotte M Kaitlyn P  
 Weather: 27°C, cloudy, wind 3-4, C.C. 60%, no precip.

Layers: 1=canopy 2=sub-canopy 3=understorey 4=ground layer

Abundance Codes: R=rare O=occasional A=abundant D=dominant

Species	Layer				Sample	Species	Layer				Sample
	1	2	3	4			1	2	3	4	
White ash	O	O	O			Wood Strawberry				R	
Hophornbeam	C					Poison Ivy				D	
Blue holly	R	R	R			Jack-in-the-pulpit				R	
Wild crabapple	R					False Solomon's seal				O	
Basswood	O	R	O			Goldenrod sp.				O	
Sugar maple	A	O	O			Wild geranium				O	
Silver maple	R			R		Carex sp.				O	
Am. beech	R	O	R			Moss sp.				R	
Fur. Burkettohn		R	R			Virginia creeper				O	
W-Elm	R	R				Spotted touchwood				R	
Shagbark Hick	R					Sensitive fern				R	
Black walnut	R	R				Zig Zag goldenrod				R	
Pignut hickory	R	R	O			Blackberry fern				R	
						Mer's Robert				R	
						Bloodroot				R	
						Enchant. nightshade				R	
						Xmas fern				R	
						Wild Red Raspberry				R	
						Red-osier dogwood				R	

### Other Notes (Landowner Contact, General Notes, etc.)

Pignut hickory photo 100-0958

**Wildlife Observation Form**  
NATURAL RESOURCE SOLUTIONS INC.

Page 3 of 4

Site: 1230 Adelaide  
 Polygon: W0D-012  
 UTM: 17T 0440882 4760140 Elev 242  
 Date: Aug 17, 2011 Time: 15:00  
 Surveyor(s): CM, KNP  
 Weather: 28°C, cloud cover 40%, windspeed 3 from SW

Species Observed					Check for Wildlife Habitat that may be associated with an observation				
TY	Species	EV	Notes	#	TY	Species	EV	Notes	#
B	Rhynchos	VO		3					
B	Phoebe	VO		1					
B	Prothon	VO		1					
M	br. Squirrel	OB		1					
L	E. Tiger Swallowtail	OB		1					
B	Am. Goldfinch	VO		1					

**Faunal Type Codes (TY)**

B=Bird M=Mammal H=Herpetofauna L=Lepidoptera F=Fish D=Dragonfly or Damselfly

**Evidence Codes (EV)**

**Breeding Birds**

SH- Suitable Habitat  
 SM- Singing Male  
 T- Territory  
 A- Anxiety Behavior  
 D- Courtship Display  
 N- Nest Building  
 P- Pair  
 V- Visiting Nest  
 DD- Distraction Display  
 NE- Nest with Eggs  
 AE- Adult entering nest  
 NU- Used nest  
 FY- Fledged Young  
 FS- Food/Fecal Sac

**Other Wildlife**

OB- Observed  
 DP- Distinctive Parts  
 TK- Tracks  
 VO- Vocalization  
 HO- House/Den  
 FE- Feeding Evidence  
 CA- Carcass/Bones  
 FY- Eggs or young  
 SC- Scat  
 SI- Other Signs (Specify)

**Wildlife Habitat Form**  
NATURAL RESOURCE SOLUTIONS INC.

Page 4 of 4

Site: 1230 Adelaide  
 Polygon: W0D-012  
 UTM: 17T 0440882 4760140 Elev 242  
 Date: Aug 17, 2011 Time: 15:00  
 Surveyor(s): CM, KNP  
 Weather: 28°C, cloud cover 40%, windspeed 3 from SW

**Wildlife Habitat (Check all that apply AND record UTM / mark on map)**  
 \*Habitats and Habitat Features are independent of wildlife observations\*

Habitat Type	Habitat Features	
<input checked="" type="checkbox"/> Deciduous Forest	<input checked="" type="checkbox"/> Birds	<input type="checkbox"/> Snakes
<input type="checkbox"/> Mixed Forest	<input type="checkbox"/> Spring Flooded Field	<input type="checkbox"/> Burrow
<input type="checkbox"/> Coniferous Forest	<input type="checkbox"/> Stick Nest (Raptors, Herons)	<input checked="" type="checkbox"/> Fallen Rotting Log
<input type="checkbox"/> Marsh	<input type="checkbox"/> Snag (Raptors, Herons)	<input type="checkbox"/> Old Well
<input type="checkbox"/> Swamp	<input type="checkbox"/> Tree Cavity Nest (Ducks)	<input type="checkbox"/> Rock Pile/Stone Wall
<input type="checkbox"/> Bog	<input type="checkbox"/> Seep/Spring (Turkeys/Grouse)	<input type="checkbox"/> Organics Pile
<input type="checkbox"/> Fen	<input type="checkbox"/> Cliffs/Banks	<input type="checkbox"/> Log Pile
<input type="checkbox"/> Water	<input type="checkbox"/> Bats	<input type="checkbox"/> Karst
<input type="checkbox"/> (Shallow & Open)	<input type="checkbox"/> Cave Entrance	<input type="checkbox"/> Broken/Fissured Rock
<input type="checkbox"/> Meadow	<input type="checkbox"/> Mine Shaft	<input type="checkbox"/> Old Foundation
<input type="checkbox"/> Tallgrass Prairie	<input type="checkbox"/> Snag (>20cm DBH)	<input type="checkbox"/> Old Bridge/Concrete Culvert
<input type="checkbox"/> Thicket	<input type="checkbox"/> Mink/Otter/Fisher/Marten	<input type="checkbox"/> Amphibians and Turtles
<input type="checkbox"/> Savannah	<input type="checkbox"/> Snag	<input type="checkbox"/> Vernal Pool/Woodland Pond (Amphibian Breeding)
<input type="checkbox"/> Woodland	<input type="checkbox"/> Burrow	<input type="checkbox"/> Sand (Turtle Nesting)
<input type="checkbox"/> Valley	<input type="checkbox"/> Den	<input type="checkbox"/> Fine/Sandy Gravel (Turtle Nesting)
<input type="checkbox"/> (Describe Below)	<input checked="" type="checkbox"/> Tree Cavity	<input type="checkbox"/> Invertebrates
<input type="checkbox"/> Headwater Area	<input checked="" type="checkbox"/> Fallen Log	<input type="checkbox"/> Crayfish Chimney
(check for Seeps/Springs)	<input type="checkbox"/> Deer/Moose	
	<input type="checkbox"/> Seep/Spring	
	<input type="checkbox"/> Mineral Lick	

**For every Habitat Type or Habitat Feature, record UTM below (for each occurrence) or mark on map**

Habitat Feature:	UTM	Description
Vernal Pool	Pic #100-0956	~2m x 3m
Several vernal ponds throughout		W0D-012

Describe Valley (depth, geomorphological traits):

**Additional Details:**

tree: Blue Beach Ironwood, Hop Hornbeam Ironwood, Shagbark Hickory, white elm

veg: false Solomon's seal, poison ivy, wild geranium, herb robert, wild strawberry, sensitive fern, Virginia Creeper, y mas fern, evening nighthad

# NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

Page 1 of 4

Site: 1230 Adelaide  
 Polygon: WOD-013  
 UTM: 17T 0444746 4762954 Elev. 280m  
 Date: Aug 17, 2011 Time: 16:15  
 Surveyor(s): CM, KNP  
 Weather: 27°C, 60% cloud cover, windspeed 3 from SW

### Community Classification

Vegetation Type: Dry-fresh basswood deciduous forest FODM4-9  
 Inclusion: None  
 Complex: N/A

### Polygon Description

System	Substrate	Topo Feature	Community
<input checked="" type="checkbox"/> Terrestrial	Organic	Lacustrine	Talus
<input type="checkbox"/> Wetland	<input checked="" type="checkbox"/> Mineral Soil	Riverine	Crevice/Cave
<input type="checkbox"/> Aquatic	Parent Min.	Bottomland	Alvar
	Acidic Bedrock	Terrace	Rockland
	Basic Bedrock	Valley Slope	Beach/Bar
<b>History</b>	Carb. Bedrock	<input checked="" type="checkbox"/> Tableland	Sand Dune
<input checked="" type="checkbox"/> Natural		Roll Upland	Bluff
<input type="checkbox"/> Cultural		Cliff	
<b>Cover</b>	Open Water	<b>Plant Form</b>	
<input type="checkbox"/> Open	Shallow Water	Plankton	Forb
<input type="checkbox"/> Shrub	<input checked="" type="checkbox"/> Surficial Dep.	Submerged	Lichen
<input checked="" type="checkbox"/> Treed	Bedrock	Floating-Lvd.	Bryophyte
		Graminoid	<input checked="" type="checkbox"/> Deciduous

### Stand Description

Layer	HT	Cover	Species
* Super-canopy	-	-	-
1 Canopy	2	1	Basswood = shag bark hickory = Black oak
2 Sub-canopy	3	3	Basswood = shag bark hickory = black oak = Am Beech = Euc
3 Understorey	4/5	3	shag bark hickory = white elm = Am Beech = Euc buckthorn
4 Groundcover	6/7	4	Virginia golden rod = poison ivy = grass sp

HT Codes: 1: >25m 2: 25-10m 3: 10-2m 4: 2-1m 5: 1-0.5m 6: 0.5-0.2m 7: <0.2m

Cover Codes: 0:none 1: 0-10% 2: 10-25 3: 25-60% 4: >60%

Size Class Analysis	A	C	R	R
	< 10 dbh	10-24 dbh	25-50 dbh	> 50 dbh
Snags	< 10	10-24	25-50	> 50
Deadfall/Logs	< 10	10-24	25-50	> 50

Abundance Codes: N: None R: Rare O: Occasional A: Abundant

Community Age: Pioneer  Young   Mid-age Mature  Old Growth

# NATURAL RESOURCE SOLUTIONS INC

Modified ELC Community Description

Page 2 of 4

### PLANT SPECIES LIST

Site: 1230 Adelaide  
 Polygon: WOD-013  
 UTM: 17T 0444746 4762954  
 Date: Aug 17, 2011 Time: 16:15  
 Surveyor(s): CM, KNP  
 Weather: 27°C, 60% cloud cover, windspeed 3 from SW

Layers: 1=canopy 2=sub-canopy 3=understorey 4=ground layer

Abundance Codes: R=rare O=occasional A=abundant D=dominant

Species	Layer				Sample	Species	Layer				Sample	
	1	2	3	4			1	2	3	4		
Trembling Aspen						Green Anis Lark					R	
Bur Oak	R	R	R			Golden rod sp.					O	
Basswood	O	O				Virginia Creeper					A	
Shagbark hickory	O	O	O			Herb robert					O	
White elm				O		Wild strawberry					O	
Black Oak	O	O	R			Poison ivy					O	
Eucalyptus Buckthorn				O		Jack-in-the-pulpit					R	
Am Beech		O	O			Moss sp					R	
Blue Beech		R				Riverbank Grape					R	
White Ash	R					Wild Red raspberry					R	
Glossy white buckthorn			R			Canada Golden rod					R	
Silver Maple						grass sp					O	
Chokecherry						Bittersweet v/s						

Other Notes (Landowner Contact, General Notes, etc.)