

**Appendix N-3: Evaluation of Bird and Bat Occurrence
and Potential Development Impacts at Seneca Wind Farm**

DIURNAL MIGRATION SURVEY FORM

Company: AES Project name: Seneca Wind Farm Date: 5/1/09 Point number: T17-P4 2

Survey period: Morning ☐ Afternoon ☒ Evening ☐ Start time: 1:30 p End time: 4:00 p

Weather F Temp (°C): 66 Wind speed (m/s): 15-20 mph SW Cloud cover: 70 %

Observer: KES Notes: _____

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TuVn	1	1:30 p	unk	1	SSE	No	YES	N/A
TuVn	5	1:58 p	unk	1, 2	S	No	YES	12 min
TuVn	1	2:39 p	unk	1	W	No	YES	N/A
TuVn	1	2:53 p	unk	1	NW	No	YES	N/A
TuVn	1	2:55 p	unk	1	WSW	No	YES	N/A
TuVn	1	3:02 p	unk	1, 2	S	No	YES	1 min
TuVn	1	3:24 p	unk	1	W	No	YES	N/A
TuVn	3	3:27 p	unk	1, 2	none	No	YES	15 min
TuVn	1	3:41 p	unk	2	none	No	YES	4 min
Total:	15							

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).

**APPENDIX 8. FALL RAPTOR/DIURNAL BIRD SURVEY DATA
SHEETS**

DIURNAL MIGRATION SURVEY FORM

Company: AES Project name: Shuca! bird Date: 9/2/09 Point number: 2 (T17)

Survey period: Morning Afternoon Evening Start time: 9:00 AM End time: 12:00 PM

Weather Temp (°C): 63 Wind speed (m/s): 5-15 Cloud cover 0 %

Observer: AES Notes: "time visible" means bird was flying away from

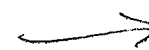
Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TUVU	2	9:51 A	unk	1,2	NE	NO	YES	10 min
TUVU	2	10:00 A	unk	2	N	NO	YES	1 min *
TUVU	4	10:06 A	unk	1,2	N	NO	YES	4 min
TUVU	3	10:20 A	unk	1,2	SSE	NO	YES	2 min
TUVU	5	10:23 A	unk	1,2,3	SE	YES	YES	7 min
TUVU	3	11:02 A	unk	1,2	SW	NO	YES	3 min
RTHA	1	11:27 A	mature	1	S	NO	YES	N/A
TUVU	1	11:33 A	unk	1,2	E	NO	YES	2 min
TUVU	6	11:35 A	unk	1,2,3	ESE	YES	YES	12 min
TUVU	1	11:43 A	unk	1	W	NO	YES	N/A
TUVU	5	11:44 A	unk	1,2	WSW	YES	YES	16 min
AGUE	1	11:57 A	unk	1	W	NO	YES	N/A
Total:	37							

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).

* time visible





DIURNAL MIGRATION SURVEY FORM

Company: AES Project name: Jewaca Wind Farm Date: 9/2/09 Point number: 1 (CR 23)

Survey period: Morning Afternoon Evening Start time: 12:30 pm End time: 4:00 pm

Weather: high ESE Temp (°C): 72° Wind speed (m/s): 5-15 Cloud cover: 10 %

Observer: EES Notes: _____

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TUVU	1	12:30	unk	2	S	NO	YES	1 min
RTHA	1	12:30	immature	1,2	NW	NO	YES	2 min
TUVU	4	12:44	unk	1	NA - perch	NO	YES	N/A
TUVU	1	12:55	unk	1,2	N	NO	YES	3 min
TUVU	3	12:55	unk	2	N	NO	YES	min *
TUVU	1	1:08	unk	1,2	NE	NO	YES	8 min
TUVU	1	1:10	unk	1	S	NO	YES	N/A
TUVU	3	1:18	unk	1	E	NO	YES	N/A
TUVU	2	1:33	unk	1,2	ESE	NO	YES	1 min
TUVU	3	1:41	unk	2	NE	NO	YES	2 min *
TUVU	3	1:41	unk	1,2,3	WSW	YES	YES	5 min
TUVU	2	1:51	unk	1	N	NO	YES	N/A
Total:	25							

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).

SE line table



EES

Project name: Seneca Wind Farm Date: 9/2/09

Point number: 1 (CR23)

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TUVU	1	2:00p	unk	1	SE	NO	YES	10 min
TUVU	1	2:03p	unk	1	SSE	NO	YES	N/A
TUVU	1	2:15p	unk	2	WSW	NO	YES	3 min
TUVU	3	2:18p	unk	1,2	SE	NO	YES	10 min
RTHA	1	2:26p	mature	1,2,3	SW	YES	YES	3 min *
TUVU	2	2:26p	unk	1,2	SE	YES	YES	4 min
TUVU	1	2:44p	unk	2	OSE	NO	YES	2 min
TUVU	3	2:50p	unk	1,2	E	NO	YES	3 min
TUVU	1	2:56p	unk	2	ENE	NO	YES	5 min
TUVU	2	2:57p	unk	1	SW	NO	YES	N/A
RTHA	2	3:08p	mature	2,3	E	YES	YES	4 min *
TUVU	2	3:08p	unk	2	SE	YES	YES	3 min
TUVU	1	3:21p	unk	2	E	NO	YES	7 min
TUVU	4	3:21p	unk	1,2	SE	NO	YES	4 min
TUVU	2	3:35p	unk	1,2	SW	NO	YES	N/A
TUVU	2	3:43p	unk	1,2	NE	NO	YES	1 min
TUVU	4	3:52p	unk	2,3	SE	YES	YES	5 min
Total:	33							

* fine visible -
skied out

DIURNAL MIGRATION SURVEY FORM

Company: ACS Project name: Seneca Lake Farm Date: 9/3/09 Point number: 1 (CR23)

Survey period: Morning Afternoon Evening Start time: 9:00 am End time: 12:00 pm

Weather Temp (°C): 63 Wind speed (m/s): Calm, later 5-7 mph Cloud cover 5 %

Observer: ACS Notes: _____

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
AMKE	1	9:22 AM	unk	1	SSW	No	YES	1 min
AMKE	1	9:23 AM	unk	1	E	No	YES	N/A
BTHA	1	9:24 AM	unk	1	N/A - perched	No	YES	N/A
TUVU	1	9:39 AM	unk	1	1		YES	N/A
BTHA	1	9:46 AM	unk	1	1			N/A
AMKE	1	10:46 AM	unk	1	1			
AMKE	2	10:04 AM	unk	1	1		YES	
TUVU	1	10:13 AM	unk	1, 2	1	No	YES	1 min
BTHA	1	10:26 AM	unk	2, 3	ESE	YES	YES	2 min
TUVU	5	10:40 AM	unk	2, 3	SE	YES	YES	3 min
TUVU	3	10:41 AM	unk	1, 2	WNW	YES	YES	5 min
Total:	9							

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).

*1 - visible -
SK out



Point number: 1 (CR23)

* fine visible - streaked out

DIURNAL MIGRATION SURVEY FORM

Company: AES Project name: ecobond Date: 9/3/09 Point number: 2 (T17)

Survey period: Morning Afternoon Evening Start time: 12:30 p End time: 4:00 p

Weather Temp (°C): 76 Wind speed (mph): 5-10 Cloud cover 40 %

Observer: F S Notes: _____

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TUVU	1	2:46 ⁰	unk	1, 2	W	NO	YES	3 min
TUVU	1	2:55 ⁰	unk	2	NE	NO	YES	1 min *
TUVU	3	1:33 ^p	unk	1, 2	W	NO	YES	3 min
TUVU		1:50 ^p	unk	2	NW	NO	YES	2 min
TUVU	1	2:03 ^p	unk	2	SE	YES	YES	14 min
AMKE		2:23 ⁰	unk	1	E	YES	YES	N/A
TUVU	1	2:39 ²	unk	1	WNW	NO	YES	1 min
TUVU	2	2:44 ^p	unk	1	S	NO	YES	3 min
TUVU	1	2:50 ^p	unk	1	NE	YES	YES	N/A
GEHE	1	3:50 ^p	unk	1	ESE	YES	YES	N/A
TUVU		3:01 ^p	unk	1	W	YES	YES	N/A
Total:	10							

* time visible

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).



Point number: 20

[illegible]

INCIDENTAL RAPTOR REPORT

FORM WD03
6/27/08

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WILDLIFE

3:45^A - 4:15^P pm

Page 1 of 1

Project name: Penicillin & Famine Date: 9/3/09

Point number:

[illegible]

ble

DIURNAL MIGRATION SURVEY FORM

Company: AES Project name: Seneca Wind Farm Date: 9/4/09 Point number: 2 (T17)

Survey period: Morning Afternoon Evening Start time: 9:00A End time: 12:00P

Weather Temp (°C): 61 Wind speed (mph): Calan Cloud cover 40 %

Observer: EES Notes: Dense fog at first - visibility < 1/2 mi. - began to clear at 9:45, completed & clear by 10:15.

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
CWNG	25	9:24A	unk	1	WNW	NO	YES	N/A
RTHA		10:23A	unk	1	N	NO	YES	N/A
TUVU	3	10:30A	unk	1, 2	SE	NO	YES	13 min
TUVU	3	10:37A	unk	2, 3	SW	YES	YES	2 min *
TUVU	1	10:38A	unk	1, 2	N	NO	YES	4 min
TUVU	4	10:49A	unk	2, 3	SE	YES	YES	24 min
TUVU	4	11:09A	unk	1, 2	S	NO	YES	13 min
TUVU	1	11:16A	unk	2	SE	NO	YES	7 min
AMKE	1	11:23A	unk	1	ENE	NO	YES	N/A
TUVU	1	11:30A	unk	2	NW	NO	YES	3 min
TUVU	1	11:32A	unk	2	SE	NO	YES	2 min
TUVU	1	11:36A	unk	1	NE	NO	YES	N/A
Total:	47							

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).

* time visible - skied out



Point number: 2 (T17)

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TWY	7	11:41A	wrk	2, 3	E	YES	YES	N/A
TWV	1	11:52A	wrk	1	NW	NO	YES	N/A
TWVA	1	11:58A	wrk	1	W	No	YES	N/A
Total:	9							

DIURNAL MIGRATION SURVEY FORM

Company: AES Project name: Seneca Wind Farm Date: 9/4/09 Point number: 1 (CR23)

Survey period: Morning Afternoon Evening Start time: 12:30 p End time: 4:00 p

Weather F Temp (°C): 75° Wind speed (m/s): 3-5 ^{mph} NE Cloud cover 60 %

Observer: LES Notes: _____

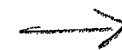
Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TUVU	2	12:30p	unk	2,3	E	YES	YES	4 min *
RTHA	1	12:30p	mature	2,3	E	YES	YES	6 min *
TUVU	1	12:35p	unk	1	WSW	NO	YES	N/A
TUVU	3	12:47p	unk	2	NE	NO	YES	7 min
AmKE	1	12:55p	unk	1	S	NO	YES	N/A
TUVU	1	12:57p	unk	2,3	SW	YES	YES	3 min *
TUVU	1	1:20p	unk	1,2	WNW	NO	YES	20 min
TUVU	1	1:55p	unk	1	SE	NO	YES	NO
TUVU	4	2:08p	unk	1,2	S	NO	YES	12 min
RTHA	1	2:27p	mature	1,2	SW	NO	YES	10 min
TUVU	2	2:51p	unk	1,2	ESE	NO	YES	2 min
TUVU	1	2:54p	unk	2	NE	NO	YES	1 min
Total:	19							

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).

* time visible -
skied out



Point number: 1 (CR23)

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TW Va	5	3:04 p	unk	1,2	SSW	NO	YES	7 min
TU Va	1	3:04 p	unk	1	NE	NO	YES	N/A
TH Va	1	3:31 p	unk	2	NNW	NO	YES	5 min
TH Va	2	3:38 p	unk	1	SW	NO	YES	N/A
Total:	7							

INCIDENTAL RAPTOR REPORT

~~FORM WD03~~
6/27/08

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WILDLIFE

Page 1 of (

8:45 A - 4:10 P

Project name: Peneco Island Farm Date: 9/4/09

Point number:

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TUA	1	12:02P	unk	1	NE	No	YES	N/A
TUVN	2	12:03P	unk	2	W	No	YES	1 min x
TUVB	1	12:05P	unk	2	SE	No	YES	1 min x
TUVU	2	12:05P	unk	1	NW	No	YES	N/A
TUVU	1	12:08P	unk	1	E	No	YES	N/A
TUVU	2	12:10pm	unk	2	SE	No	YES	1 min x
TUVU	2	12:11pm	unk	2	NW	No	YES	1 min x
TUVU	9	12:14P	unk	1,2	N	No	YES	2 min x
TUVU	1	12:17P	unk	1	E	No	YES	N/A
TUV	2	12:19P	unk	2	NE	No	YES	1 min +
TUVU	3	4:06	unk	1,2	W	No	YES	1 min x
Total:	24							

* fine visible

DIURNAL MIGRATION SURVEY FORM

Company: AES Project name: Greca Wind Date: 9/1/09 Point number: 1 (CR 23)

Survey period: Morning Afternoon Evening Start time: 9:00 A End time: 12:00 P

Weather Temp (°C): 68 Wind speed (m/s): 3-5 Cloud cover 100 %

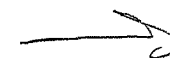
Observer: EES Notes: Foggy at 9:00 (visibility ~1 mi), lifted by 10:15 but overcast & hazy

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
OLA	1	10:50A	iml		SSW	NO		1 min
TWVA	1	11:13A	iml	1	S	NO	YES	N/A
TWVA	2	11:25A	iml	2	E	NO	YES	7 min
TWVA	3	11:43A	iml	1,2	E	NO	YES	3 min
TWVA	1	11:50A	iml	1,2	W	NO	YES	2 min
Total:	7							

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).




FORM WD03
6/27/08

OHIO DEPARTMENT OF NATURAL RESOURCES DIVISION OF WILDLIFE

8:45-4:15 Page 1 of 1

Project name: Breca Wind Date: 9/4/09

Point number: 

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TUVU	1	12:07A	unk	1	SW	No	✓ ES	N/A
TUVU	1	12:09	unk	2	S	No	-	1 min *
TUVU	2	12:12	unk	2	NW	No	S	1 min *
TUVU	4	12:18	unk	1, 2	WNH	No	YES	1 min *
TUVU	5	12:21	unk	1	W	No	YES	N/A
TUVU	3	12:24	unk	1	SE	No	YES	N/A
Total:	16							

* fine visible



DIURNAL MIGRATION SURVEY FORM

Company: AES Project name: Amica Date: 7/1 Point number: 2 (T17)

Survey period: Morning Afternoon Evening Start time: 12:30 p End time: 4:00 p

Weather: F Temp (°C): 74 Wind speed (m/s): 3-5 ^{up to NE} Cloud cover: 90 %

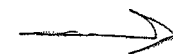
Observer: AES Notes: light thunder 3:30-3:45 but no rain

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TUVU		12:30	unk	1	W	NO	YES	min
TUVU		12:30p	unk	1	SE	NO	YES	N/A
TUVU	2	12:44p	unk	1,2	NE	NO	YES	10 min
AMKE	1	12:55	unk	1	NW	NO	YES	N/A
TUVU	4	12:59	unk	1,2	SE	NO	YES	6 min
TUVU	5	1:07	unk	2,3	SSE	YES	YES	13 min
TUVU	1	1:19p	unk	1	NE	NO	YES	N/A
TUVU	1	1:41p	unk	1	WSW	NO	YES	N/A
TUVU	6	1:55p	unk	1,2	E	NO	YES	5 min
TUVU	2	2:01p	unk	1	SE	NO	YES	N/A
TUVU	5	2:02p	unk	1,2	SW	NO	YES	4 min
	1	2:07p	unk	2	NE	NO	YES	1 min
Total:	31							

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).



Point number: 2 (T17)

[illegible]

DIURNAL MIGRATION SURVEY FORM

Company: AES Project name: Shucah & farm Date: 9/10/07 Point number: 2 (T17)

Survey period: Morning Afternoon Evening Start time: 9:00 End time: 12:00 p

Weather Temp (°C): 67 Wind speed (mph): 5-12 Cloud cover 90 % low to 50' 7 0.00

Observer: ES Notes: Foggy/hazy at first but visibility fairly good -

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TUVU	1	10:50	unk	1, 2	WSW	NO	YES	1 min
TUVU	1	10:51	unk	1, 2	SE	NO	YES	2 min
TUVU	4	11:03 A	unk	1, 2	ESE	NO	YES	3 min
TUVU	2	11:08 A	unk	1, 2	SE	NO	YES	2 min
TUVU	2	11:15 A	unk	2	NE	NO	YES	5 min
TUVU	2	11:29 A	unk	2	S	NO	YES	2 min
TUVU	8	11:29 A	unk	1, 2	ESE	YES	YES	25 min
TUVU	2	11:32 A	unk	1	W	NO	YES	N/A
TUVU	1	11:41 A	unk	2	SW	NO	YES	1 min
RTHA	1	11:47 A	mature	1	S	NO	YES	N/A
TUVU	2	11:51 A	unk	1	NE	NO	YES	N/A
Total:	26							

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).

1 mile B, TEA -
side of 3rd area -
not a TUVU & wings
never in a ditch -

8:45A - 4:15p

DES

Page 1 of 1

Point number:

* fine visible

DIURNAL MIGRATION SURVEY FORM

Company: AES Project name: Seneca Wind farm Date: 9/9/09 Point number: (CR23)

Survey period: Morning Afternoon Evening Start time: 12:30 p End time: 4:00 p

Weather F Temp (°C): 74 Wind speed (m/s): 5-15 ^{uph} NE Cloud cover 40 %

Observer: AES Notes: _____

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
THVU	1	12:30	unk	1	NW	NO	YES	15 min
THVU	2	12:40p	unk	1, 2	S	NO	YES	2 min
THVU	1	1:11p	unk	1	NNE	NO	YES	N/A
THVU	3	1:33p	unk	1, 2	WSW	NO	YES	30 min
THVU	3	1:40p	unk	2	E	NO	YES	3 min
THVU	2	2:04p	unk	2	ENE	NO	YES	7 min
THVU	1	2:08p	unk	1, 2	NW	NO	YES	2 min
NOHA	1	2:26p	immature ♂	2	SSE	NO	YES	2 min *
THVU	2	2:27p	unk	2	SW	NO	YES	5 min
RTHA	1	2:35p	immature	1, 2	WSW	NO	YES	1 min
THVU	1	2:38p	unk	1, 2	SE	NO	YES	1 min
THVU	2	2:38p	unk	2	ESE	NO	YES	3 min
Total:	24							

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).

x fine visible



Project name: Shawnee Wind Farm Date: 9/9/09

Point number: (CP-23)

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TUVU	1	2:43p	unk	1	SE	no	yes	n/a
RTHA	1	2:51p	unk	2	SE	No	yes	1 min
TUVU	3	2:57p	unk	1, 2	E	No	yes	3 min
RLHA	1	3:09p	mature	1, 2	WSW	No	yes	1 min
TUVU	2	3:13p	unk	2	E	No	yes	2 min
TUVU	1	3:30p	unk	1	NW	No	yes	N/A
TUVU	3	3:40p	unk	1, 2	NNE	No	yes	10 min
SSHA	1	3:47p	mature	1	NNW	No	yes	N/A
TUVU	1	3:48p	unk	1	E	No	yes	N/A
TUVU	2	3:58p	unk	1, 2	WSW	No	yes	2 min
Total:	16							

may be a
1st inf-
leaves to ins
so
a RLHA
area
the
of course
a light morph
RTHA
because the
RLHA
gain

* time visible

DIURNAL MIGRATION SURVEY FORM

Company: AES Project name: eco Wind Farm Date: 9/2/09 Point number: 1 (C123)

Survey period: Morning Afternoon Evening Start time: 9:00 A End time: 12:00p

Weather Temp (°C): 69° Wind speed (m/s): 5.2 Cloud cover 10 %

Observer: EES Notes:

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TUVA	3	10:40A	1	1	NE	NO	YES	
TUVA	1	10:49A	1	2	ENE	NO	YES	
TUVA	1	11:00A	1	1	SSW	NO		
TUVA	1	11:08A	1	2	E			
TUVA	4	11:31A	1	1,2	SW	NO	YES	
TUVA	2	11:33A	1	1,2			YES	2 min
TUVA	1	11:57A	1	2				min
Total:	4							

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).

B:454 4:10

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WILDLIFE

Page 1 of 1

Point number:

[illegible]

* fine visible

DIURNAL MIGRATION SURVEY FORM

Company: AES Project name: Lincoln Date: 9/10/ Point number: 2 (T17)

Survey period: Morning ☒ Afternoon ☒ Evening ☐ Start time: 12:30 p End time: 4:00 p

Weather: F Temp (°C): 22 Wind speed (m/s): 10-20 ESE Cloud cover: 30 %

Observer: DES Notes: windy gusts to 20 mph

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TVU	1	12:30 p	unk	2	ESE	NO	YES	1 min
TVU	2	12:43 p	unk	1, 2	NNE	NO	YES	2 min
TVU	1	1:17 p	unk	1	NW	NO	YES	N/A
TVU	1	1:21 p	unk	2	ENE	NO	YES	3 min
TVU	1	1:32 p	unk	1	SE	NO	YES	N/A
TVU	1	1:36 p	unk	1, 2	ESE	NO	YES	10 min
TVU	1	2:02 p	unk	1	E	NO	YES	N/A
TVU	3	2:31 p	unk	1, 2	S	NO	YES	11 min
TVU	5	2:47 p	unk	1, 2	WSW	NO	YES	2 min
TVU	1	2:57 p	unk	1	NE	NO	YES	N/A
TVU	1	3:02 p	unk	1	SE	NO	YES	N/A
TVU	1	3:07 p	unk	1	NW	NO	YES	N/A
Total:	9							

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).



Point number: 2 (17)

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TUVU	2	3:13 p	w/h	1-2	S	NO	N/A	3 min
M	1	3:20 p	yok	1-2	SE	NO	N/A	- run
TUVU	4	3:33 p	w/h	1-2	S	NO	YES	10 min
TUVU	1	3:40 p	w/h	1	E	NO	YES	N/A
TUVU	2	3:45 p	w/h	1-2	NNW	NO	YES	1 min
Total:	71							

Company: ACS Project name: Seneca W & P Date: 9/16/09 Point number: 2 (T17)

Survey period: Morning Afternoon Evening Start time: 9:00 A End time: 12:00 P

Weather Temp (°C): 16.2 Wind speed (m/s): ^{mph} 10-15 ^{NO} Cloud cover 40 %

Observer: FPS Notes:

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
							yes	
							yes	
	1							
	5					A		
A	1	7					S	
	1	7	K	1.2			S	
TUVU	3	10:04A	6	1.2		No		1 min
TUVU	1	10:07A	unk	1.2	NE	No		1 min
U	3	10:10A	unk	1.2	SW		S	unk
TL/K	4	10:10A	unk	1.2				5 min
TUVU	2			1			S	N/A
U	1	10:27A	unk	1.2	E	S		4 min
Total:	36							

Direction: Compass direction the bird is heading (e.g. SSW).



Point number: 55

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TWVA	1	10:36A	unk	1	Ene	No	YES	N/A
TWVA	2	11:10A	unk	12	NW	No	YES	5 min
TWVA	5	11:21A	unk	12	WSW	No	YES	2 min
CANB	9	11:37A	unk	1	SSW	No	YES	N/A
TWVA	1	11:42A	unk	1	N	No	YES	N/A
Total:	18							

DIURNAL MIGRATION SURVEY FORM

Company: A-7 Project name: Leona Date: 9/16/09 Point number: 1 (CR23)

Survey period: Morning Afternoon Evening Start time: 12:30 p End time: 4:00 p

Weather Temp (°C): 68 Wind speed (m/s): NE 10-15 Cloud cover 60 %

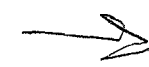
Observer: _____ Notes: _____

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TUVU	2	12:30	unk	1,2	NE	NO	YES	5 min
TUVU	3	12:40	unk	1,2	ESE	NO	YES	7 min
TUVU	1	12:41	unk	1,2	NE	NO	YES	3 min
TUVU	2	12:56	unk	1	S	NO	YES	N/A
TUVU	1	1:28	unk	1	SW	NO	YES	N/A
TUVU	1	1:53	unk	1	ENE	NO	YES	N/A
TUVU	3	1:55	unk	1,2	S	NO	YES	5 min
TUVU	1	2:04	unk	2	NE	NO	YES	2 min
TUVU	3	2:07	unk	1	WNW	NO	YES	N/A
TUVU	1	2:26	unk	1,2	NE	NO	YES	1 min
TUVU	1	2:38	unk	2	N	NO	YES	2 min
TUVU	2	2:46	unk	1,2	E	NO	YES	2 min
Total:	21							

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).



Point number: 1 (CR23)

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TWVA	1	3:14	wk	1	E	NO	YES	N/A
TWVA	2	3:14	wk	1	ESE	NO	YES	N/A
TWVA	1	3:38	wk	1	SE	NO	YES	N/A
TWVA	1	3:40	wk	1,2	WNW	NO	YES	3 min
Total:	5							

λ_{fine} visible

INCIDENTAL RAPTOR REPORT

~~FORM WD03~~
6/27/08

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WILDLIFE

3:45A-4:20P
EES

Page 1 of 1

Project name: Seneca Wind Farm Date: 9/17/09

Point number:

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TUVA	2	12:07	unk	1	ESE	No	YES	N/A
TUHA	1	12:09	unk	2	NW	No	YES	min *
RTHA	2	12:10	unk	1	WSW	YES	YES	N/A
TUVU	1	12:10	unk	1	WSW	YES	YES	N/A
RTHA	1	12:11	unk	1	NE	No	YES	N/A
TUVU	2	12:16	unk	1	E	No	YES	A
TUVU	1	12:18	unk	2	NE	No	YES	min *
TUVU	3	4:11	unk	1-2	S	No	YES	min *
RTHA	1	4:12	unk	1	NE	No	YES	N/A
TUVU	1	4:13	unk	1	W	No	YES	N/A
RTHA	1	4:13	unk	1	W	No	YES	N/A
TUVU	1	4:15	unk	2	SE	No	YES	min *
RTHA	1	4:18	unk	1	N	NO	YES	N/A
Total:	13							

* time visible

DIURNAL MIGRATION SURVEY FORM

Company: AES Project name: Seneca Wine land Date: 9/17/09 Point number: 2 (T17)

Survey period: Morning Afternoon Evening Start time: 9:00 A End time: 12:00 P

Weather: E Temp (°C): 61 Wind speed (m/s): 3-5 Cloud cover 5 %

Observer: EES Notes: _____

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
RTHA		9:15	imm	1	N	NO	YES	N/A
TUVU		10:03 A	unk	1	SSW	NO	YES	N/A
TUVU	2	10:14 A	unk	1,2	W	NO	YES	15 min
TUVU	1	10:24 A	unk	1,2	NE	NO	YES	5 min
TUVU	1	10:41 A	unk	1	NW	NO	YES	
RTHA	1	10:45 A	mature	1	SSW	NO	YES	
TUVU	1	10:45 A	unk	1,2	NNE	NO		1 min
TUVU	5	10:50 A	unk	1,2	NE	NO	YES	3 min
TUVU	1	11:02 A	unk	1	NW	NO	YES	N/A
TUVU	2	11:18 A	unk	1	NW	NO	YES	N/A
TUVU	2	11:33 A	unk	2,3	SSW	YES	YES	3 min *
RTHA	1	11:33 A	mature	2,3	SSW	YES	YES	2 min *
Total:	19							

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).

A line visible -
scattered out



Point number: 2 (T17)

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TWNA	2	11:30A	imm	1	W	NO	YES	N/A
C-FA	1	11:44A	mature	1	NW	NO	YES	N/A
TWNA	2	11:52A	unk	2	SW	NO	YES	2 min
Total:	5							

DIURNAL MIGRATION SURVEY FORM

Company: AES Project name: Bluebird Date: 9/17/08 Point number: 1 (CR23)

Survey period: Morning Afternoon Evening Start time: 12:30p End time: 4:00p

Weather Temp (°C): 71 Wind speed (m/s): 5-10 Cloud cover 15 %

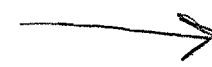
Observer: KES Notes: _____

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TUVU	1	12:30p	unk	1	W	No	YES	N/A
TUVU	1	12:41p	unk	1	E	No	YES	N/A
RTHA	1	1:02p	mature	1	E	No	YES	N/A
TUVU	1	1:28p	unk	2	NW	No	YES	2 min
TUVU	3	1:44p	unk	1, 2	ESE	No	YES	4 min
TUVU	2	1:51p	unk	1, 2	NE	No	YES	1 min
TUVU	1	2:01p	unk	1	SW	No	YES	N/A
NOHA	1	2:07p	mature ♂	1	NNE	No	YES	N/A
TUVU	1	2:09p	unk	2	W	No	YES	2 min
TUVU	1	2:13p	unk	2	SSE	No	YES	1 min
TUVU	3	2:15p	unk	1	E	No	YES	N/A
TUVU	2	2:29p	unk	1, 2	N	No	YES	12 min
Total:	18							

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).



Point number: 1 (CR23)

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TW/VU	1	2:31 p	wrk	1	ESE	No	YES	N/A
TW/VU	1	2:41 p	wrk	1, 2	NE	NO	YES	1 min
TH/VU	3	2:53 p	wrk	1, 2	E	No	YES	3 min
TUVU	1	2:54 p	wrk	1	NE	NO	YES	N/A
TUVU	4	3:19 p	wrk	1, 2	WSW	NO	YES	5 min
TUVU	1	3:38 p	wrk	1, 2	N	NO	YES	7 min
TUVU	5	3:43 p	wrk	1, 2	NNE	NO	YES	5 min
Total:	16							

Project name: Swamp Wind Farm Date: 9/1/09

DIURNAL MIGRATION SURVEY FORM

Company: AES Project name: Seneca Wind Farm Date: 9/18/09 Point number: 1 (CR23)

Survey period: Morning Afternoon Evening Start time: 9:00A End time: 12:00p

Weather Temp (°C): 61 Wind speed (m/s): 0-10 Cloud cover 10 %

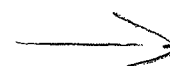
Observer: DES Notes: hazy at first, but visibility not affected

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
NOVA		9:52A	immature	1	NNE	NO	YES	1 min
COHA	1	10:40A	unk	1, 2, 3	NE	YES	YES	2 min
TUVU	1	11:05A	unk	1, 2	E	NO	YES	4 min
BAEA	1	11:11A	mature	1, 2, 3	E	YES	YES	7 min
TUVU	1	11:14A	unk	2, 3	WNW	YES	YES	4 min
TUVU	6	11:23A	unk	1, 2	ESE	NO	YES	9 min
RTHA	2	11:46A	mature	1, 2, 3	SE	YES	YES	7 min
TUVU	1	11:50A	unk	2	NW	NO	YES	3 min
TUVU	1	11:55A	unk	2	WNW	NO	YES	1 min
Total:	5							

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).



DIURNAL MIGRATION SURVEY FORM

Company: AES Project name: Green Windfarm Date: 9/18/09 Point number: 2 (T17)

Survey period: Morning Afternoon Evening Start time: 12:30 p End time: 4:00 p

Weather Temp (°C): 73 Wind speed (m/s): 5-12 Cloud cover 0 %

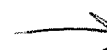
Observer: DKS Notes: Transect moving 1/2 to west, where NOAA has

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TAUVU	3	1:14 p	unk	1, 2	SW	NO	YES	3 min
TAUVU	1	1:20 p	unk	2	SSE	NO	YES	2 min
PTMA	1	1:37 p	unk	1	WNW	NO	YES	N/A
TAUVU	1	1:40 p	unk	2	SW	NO	YES	2 min
TAUVU	1	1:43 p	unk	1	N	NO	YES	N/A
TAUVU	1	1:55 p	unk	1	NE	NO		N/A
TAUVU	1	1:58 p	unk	1	SE	NO		N/A
TAUVU	1	2:00 p	unk	2	NE	NO	YES	3 min
TAUVU	1	2:17 p	unk	1	EE	NO	YES	N/A
TAUVU	2	2:30 p	unk	2	W	NO	YES	6 min
TAUVU	2	2:40 p	unk	2	SSW	NO	YES	2 min
TAUVU	2	4:00 p	unk	1	SE	NO	YES	N/A
Total:	17							

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).



Point number: 2 (T17)

[illegible]

*t. & visible

DIURNAL MIGRATION SURVEY FORM

Company: E Project name: 1 Date: 9/25/11 Point number: 1 (CR2)

Survey period: Morning Afternoon Evening Start time: 6 End time: 12:00 p

Weather Temp (°C): 71 Wind speed (m/s): 2 Cloud cover 2 %

Observer: LSC Notes: 2 birds

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
					S			
			u a	100	S		YES	11 min
			b	2	S		YES	3 min
Total:	4							

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).



Company: AES Project name: Low Air Date: 9/23/09 Point number: 2 (T17)

Survey period: Morning ☒ Afternoon ☐ Evening ☐ Start time: 12:00 P End time: 4:00 P

Weather ☐ Temp (°C): 75 Wind speed (m/s): 5-15 Cloud cover 100 %

Observer: AES Notes: _____

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
	1	1:22						0 min
L	1	1:22		1.2			YES	3 min
T	1							N/A
WV	5	1:22		1.2		NO	YES	5 min
WV	2	1:22		1		NO	YES	N/A
T	2	1:25		1.2	SE	NO	YES	3 min
T	2	1:25		2	WNV	NO	YES	0 min
T	1	1:42		1	NW	NO	YES	4 min
	1	1:42		1	S		YES	1 min
WV	2		k		SE		YES	30 min
WV	2			1	WNV		YES	N/A
	6	3:06	nk	1.2	E	NO	YES	1 min
Total:	1							

Direction: Compass direction the bird is heading (e.g. SSW).

Point number: 2 (T17)

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
				1	S			
				1	S			
	2			1	S			A
	2			1/2	SW			
	1			1	S			
TWVA	1	7:11		1	SW	No		
TA	1	7:16		1		No		
SE	1	7:20		1	N	No		
Total:	12							

FORM WD03
6/27/08

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WILDLIFE

B:30A - 4:15p
EAS

Page 1 of 1

Project name: Buena Vista Farm Date: 9/24/09

Point number: _____

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
RTHA	1	12:16 p	mature	1	S	No	YES	N/A
TUVU	5	12:19 p	wrk	1,2	WSW	No	YES	2 min *
Tuvu	2	12:21	wrk	1	E	NO	YES	N/A
Tuvu	1	12:21	wrk	1	SW	NO	YES	N/A
Tuvu	1	12:25	wrk	2	S	NO	YES	1 min *
TUVU	2	12:26	wrk	1	SE	NO	YES	N/A
Tuvu	1	4:03 p	wrk	1	N	NO	YES	N/A
Total:	13							

* fine visible

DIURNAL MIGRATION SURVEY FORM

Company: A.S. Project name: can. tit Date: 9/1/09 Point number: 1 (CR23)

Survey period: Morning Afternoon Evening Start time: 9:2A End time: 12:00 P

Weather Temp (°C): 16.6 Wind speed (m/s): 5-10 ^{mph NNE} Cloud cover 80 %

Observer: E.S. Notes: very active but in not - heated

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
<u>can. tit</u>	<u>1</u>	<u>9:37</u>	<u>unk</u>	<u>1</u>				<u>N/A</u>
<u>can. tit</u>	<u>19</u>	<u>9:37</u>	<u>unk</u>	<u>1</u>				<u>N/A</u>
<u>can. tit</u>	<u>1</u>	<u>10:30</u>	<u>unk</u>	<u>1</u>				<u>N/A</u>
<u>can. tit</u>	<u>1</u>	<u>10:53A</u>	<u>unk</u>	<u>2</u>	<u>SSW</u>	<u>NO</u>		<u>2 min</u>
<u>can. tit</u>	<u>1</u>	<u>10:55A</u>	<u>unk</u>	<u>1,2</u>	<u>ENE</u>	<u>NO</u>		<u>3 min</u>
<u>can. tit</u>	<u>3</u>	<u>11:23A</u>	<u>unk</u>	<u>1,2</u>	<u>NE</u>	<u>No</u>	<u>YES</u>	<u>5 min</u>
<u>can. tit</u>	<u>1</u>	<u>11:49A</u>	<u>unk</u>	<u>1</u>	<u>ENE</u>	<u>No</u>	<u>YES</u>	<u>N/A</u>
<u>can. tit</u>	<u>3</u>	<u>11:53A</u>	<u>unk</u>	<u>1,2</u>	<u>N</u>	<u>No</u>	<u>YES</u>	<u>3 min</u>
Total:	<u>53</u>							

** fine visible

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).

* use large flock as feeding in the sea
(also for not feeding in the sea)



DIURNAL MIGRATION SURVEY FORM

Company: ACS Project name: Green W Date: 9-1-04 Point number: 2 (T7)

Survey period: Morning Afternoon Evening Start time: 12:30 p End time: 4:00 p

Weather Temp (°C): 76 Wind speed (mph): 5-12 Cloud cover 90 %

Observer: T.S. Notes: Manure spread in field & we east at 1:45 pm

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TUVU	1	12:30p	unk	1,2	ENE	NO	YES	3 min
TUVU	1	12:30p	unk	1,2	NE	NO	YES	10 min
TUVU	1	12:51p	unk	1		NO	YES	N/A
TUVU	1	12:59p	unk	1	E	NO	YES	N/A
TUVU	2	1:21	unk	1	S	NO	YES	N/A
TUVU	1	2:01p	unk	1	SW	NO	YES	1 min
SBHE	1	2:15p	unk	2	ENE	NO	YES	2 min *
TUVU	1	2:34p	unk	1,2	E	NO	YES	5 min
TUVU	1	2:40p	unk	1	SW	NO	YES	N/A
TUVU	5	2:46p	unk	1,2	SSE	NO	YES	7 min
RTHA	1	2:47p	unk	2	SE	NO	YES	2 min *
TUVU	1	3:08p	unk	2	S	NO	YES	1 min *
Total:	17							

*time visible

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).

Notes: Large flocks of MODOS
passing over the area
(at various heights)



Point number: 2 (T17)

[illegible]

INCIDENTAL RAPTOR REPORT

FORM WD03
6/27/08

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WILDLIFE

8:45A - 4:10P

Page 1 of 1

Project name: Seneca Wind Farm Date: 9/25/09

Point number:

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TUVU	2	12:05P	wrk	1	NNE	No	YES	N/A
TUVU	1	12:06P	wrk	2	SW	No	YES	1 min *
AHKE	1	12:08	wrk	1	N	No	YES	N/A
TUVU	1	12:10	wrk	1	NE	No	YES	N/A
TUVU	2	12:14	wrk	1	ENE	No	YES	N/A
TUVU	1	12:16	wrk	1	NE	No	YES	N/A
TUVU	1	12:16	wrk	1	SSW	No	YES	N/A
TUVU	1	12:17	wrk	2	NW	No	YES	1 min *
TUVU	2	12:20	wrk	1,2	E	No	YES	1 min *
TUVU	1	4:03	wrk	1	S	No	YES	N/A
TUVU	3	4:10	wrk	1	SSW	No	YES	N/A
Total:	11e							

* time visible



DIURNAL MIGRATION SURVEY FORM

Company: A.S. Project name: Fair Date: 9/25/09 Point number: 2(17)

Survey period: Morning Afternoon Evening Start time: 9 End time: 12:00 p

Weather F Temp (°C): 10.3 Wind speed (m/s): 10.15 Cloud cover 80 %

Observer: EES Notes: Hummer being ad t - moved

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
			unk	1.2			YES	
			unk	1.2			YES	
	11		unk	1			YES	
UG	7		unk	1			YES	JA
UA	1		unk	1	NE	NO	YES	A
THU	5			1.2			YES	0 min
CHUG	4			1				NIA
TWU	1			1		NO		IA
TWU	1			1		NO		IA
TWU	2		unk	1.2				
THU	5		unk	1.2	W		YES	
	2		unk	1.2	NE		YES	
Total:	29							

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).



DIURNAL MIGRATION SURVEY FORM

Company: AES Project name: Seneca Wind Farm Date: 9/25/09 Point number: 1 (CR23)

Survey period: Morning Afternoon Evening Start time: 12:30p End time: 4:00p

Weather F Temp (°C): 105 Wind speed (m/s): 10-15 Cloud cover 100 %

Observer: EES Notes: _____

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TUVU	3	12:30p	unk	1, 2	ESE	NO	YES	15 min
TUVU	1	12:42p	unk	1	SW	NO	YES	N/A
TUVU	1	12:53p	unk	1	SW	NO	YES	N/A
TUVU	1	1:02p	unk	1	SE	NO	YES	N/A
TUVU	1	1:04p	unk	1	W	NO	YES	N/A
TUVU	1	1:15p	unk	1	WSW	NO	YES	N/A
TUVU	3	1:47p	unk	1, 2	ESE	NO	YES	4 min
BAEA	1	1:48p	juvenile	2	NE	NO	YES	2 min
TUVU	2	2:21p	unk	1, 2	SW	NO	YES	1 min
RTHA	1	2:56p	matine	1	SW	NO	YES	N/A
TUVU	1	3:11p	unk	2	NW	NO	YES	3 min
TUVU	1	3:16p	unk	1	E	NO	YES	N/A
Total:	17							

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).



Point number: 1 (CR23)

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
NdHA	1	3:21 p	mature ♂	1	NNE	No	YES	N/A
TUVU	1	3:30 p	unk	2	NE	No	YES	4 min
TUVU	1	3:31 p	unk	1,2	SE	No	YES	1 min
TUVU	3	3:42 p	unk	1,2	W	No	YES	3 min
Total:	6							

Page 1 of 1

Project name: Greca Wind Farm Date: 9/30/09

Point number:

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TUVU	40	8:33 A	wrk	1, 2	E	YES	YES	2 min *
CANG	20	8:35 A	wrk	1	SW	NO	YES	N/A
TUVU	1	12:05 P	wrk	1	NW	NO	YES	N/A
TUVU	1	12:14	wrk	1	S	NO	YES	N/A
TUVU	1	12:14	wrk	1	W	NO	YES	N/A
TUVU	2	12:22	wrk	1	S	NO	YES	N/A
TUVU	9	12:22	wrk	1, 2	SE	YES	YES	2 min *
TUVU	1	12:23	wrk	2	WSW	NO	YES	2 min *
AHKE	1	12:23	wrk	1	N/A-perched	NI	YES	N/A
TUVU	1	4:07	wrk	1	N	NO	YES	N/A
TUVU	4	4:09	wrk	1	W	NO	YES	N/A
Total:	81							

* fine visible



DIURNAL MIGRATION SURVEY FORM

Company: ABS Project name: Greca Wind Farm Date: 9/30/09 Point number: 1 (CR23)

Survey period: Morning Afternoon Evening Start time: 9:00A End time: 12:00p

Weather Temp (^F): 52 Wind speed (^{mph}): 5-12 ^{NW} Cloud cover 100 %

Observer: EES Notes: _____

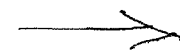
Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
CANG	4	10:03A	unk	2	SE	NO - but migrating	YES	3 min *
RTHA	1	10:58A	immature	1	W	NO	YES	N/A
CANG	5	11:13A	unk	1	SW	NO - but migrating	YES	N/A
TAVU	1	11:32A	unk	2	SE	NO	YES	1 min *
RTHA	2	11:32A	immature	1, 2	ESE	NO	YES	7 min
TAVU	3	11:43A	unk	1, 2	W	NO	YES	12 min
Total:	21							

* fine visible

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).



DIURNAL MIGRATION SURVEY FORM

Company: ATES Project name: Seneca Lake Date: 9/30/09 Point number: 2 (T17)

Survey period: Morning ☐ Afternoon ☒ Evening ☐ Start time: 12:30 p End time: 4:00 p

Weather: F Temp (°C): 58 Wind speed (m/s): 5-12 Cloud cover: 100 %

Observer: BS Notes: Multiple people have stopped recently to say (see version)

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
THVA	3	12:30	unk	1,2	SSE	no	yes	5 min
THVA	2	12:30	unk	1	ESE	No	yes	N/A
THVA	8	12:30	unk	1,2	S	No	yes	20 min
CANCA	11	12:31	unk	2	SE	1'0-butter	yes	2 min *
THVA	2	12:40	unk	1,2	NW	No	yes	5 min
THVA	2	12:5	unk	2	NE	No	yes	3 min
THVA	1	1:33	unk	1	NW	No	yes	N/A
THVA	2	1:35	unk	1	W	No	yes	N/A
THVA	3	1:50	unk	1	S	No	yes	N/A
THVA	4	2:13	unk	1,2	SE	No	yes	18 min
THVA	1	2:57	unk	1	SW	No	yes	N/A
THVA	1	3:04	unk	1	W	No	yes	N/A
Total:	45							

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).

* time visible

Notes cont. - they've seen BAEAS in the area - both juveniles + adults. Most report
sightings ~ 1-2 miles South of survey point - probably
closer to Sandusky River.

Point number: 2 (T, F)

* fine visible

Page 1 of 1

Project name: Seneca Wind Farm Date: 10/1/09

Point number: _____

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TUVU	2	12:12p	unk	1	N	NO	YES	N/A
TUVU	1	12:13p	unk	1	NW	NO	YES	N/A
TUVU	2	12:13p	unk	1	W	NO	YES	N/A
BAEA	2	12:18p	mature	1,2	NNE	NO	YES	2 min
TUVU	1	12:22p	unk	1	NE	NO	YES	N/A
TUVU	1	12:24p	unk	1	N	NO	YES	N/A
TUVU	1	12:24p	unk	1	NW	NO	YES	N/A
BAEA	1	4:05p	mature	1	perched, then S	No	YES	N/A
TUVU	2	4:05p	unk	1	S	NO	YES	N/A
AMKE	1	4:09p	unk	1	N/A - perched	NO	YES	N/A
TUVU	1	4:10p	unk	1	NE	NO	YES	N/A
AMKE	1	4:10p	unk	1	N/A - perched	NO	YES	N/A
TUVU	1	4:13p	unk	1	E	NO	YES	N/A
TUVU	1	4:16p	unk	2	S	NO	YES	1 min *
TUVU	1	4:20p	unk	2	WNW	NO	YES	1 min *
Total:	19							

* fine visible

No Survey Conducted Fri, 10/2,
due to steady rain - weather not conducive
to Taptor migration.

DIURNAL MIGRATION SURVEY FORM

Company: AES Project name: Ineca Wind Farm Date: 10/1/09 Point number: 2(T17)

Survey period: Morning Afternoon Evening Start time: 9:00 A End time: 12:00 P

Weather Temp (°C): 38 Wind speed (mph): 5-10 Cloud cover 5 %

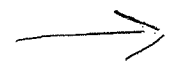
Observer: EES Notes: first flock this AM, hazy along distant tree lines

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
CANIG	5	9:00A	unk	1	SW	NO - but migrating	YES	N/A
RTHA	1	9:34A	mature	1	NNW	NO	YES	N/A
RTHA	1	9:55A	juvenile (?)	1	WNW	NO	YES	N/A
TUVU	1	10:12A	unk	1	S	NO	YES	N/A
TUVU	2	10:41A	unk	1,2	WSW	NO	YES	1 min
CANIG	4	10:48A	unk	1	SW	NO - but migrating	YES	N/A
TUVU	1	10:48A	unk	1	SW	NO	YES	N/A
TUVU	1	11:36A	unk	1	NE	NO	YES	N/A
TUVU	2	11:39A	unk	1,2	NW	NO	YES	1 min
TUVU	2	11:40A	unk	2	S	NO	YES	2 min
Total:	20							

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).



DIURNAL MIGRATION SURVEY FORM

Company: ABS Project name: Seneca Wind Farm Date: 10/1/09 Point number: 1 (CR23)

Survey period: Morning ☒ Afternoon ☐ Evening ☐ Start time: 12:30 p End time: 4:00 pm

Weather Temp (°C): 57 Wind speed (m/s): 3-7 ^{mph WSW} Cloud cover 20 %

Observer: ES Notes: roadkill south of observation point attracting vultures

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TUVA	7	12:30	unk	1,2	S	No	YES	26 min
RTHA	2	2:30	mature	1,2	ENE	No	YES	3 min *
TUVA	1	12:34	unk	1,2	E	No	YES	10 min
TUVA	1	1:10	unk	1	S	No	YES	N/A
TUVA	2	1:30	unk	1	NE	No	YES	N/A
TUVA	3	2:09 p	unk	1,2	WSW	No	YES	2 min
TUVA	2	2:21	unk	1	SE	No	YES	N/A
NOHA	1	2:45	mature ♂	1	W	No	YES	N/A
TUVA	1	2:49	unk	1	SE	No	YES	N/A
TUVA	5	3:02 p	unk	1,2	NE	No	YES	6 min
TUVA	1	3:27 p	unk	1	NE	No	YES	N/A
TUVA	2	3:41 p	unk	1	E	No	YES	N/A
Total:	28							

*time visible

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).



Point number: 1 CER 23

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TAVU	3	3:55 p	wk	1	w	No	YES	N/A
Total:	3							

8:45a - 4:10p

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WILDLIFE

tes

Page 1 of 1

Point number:

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TUVU	2	8:51a	unk	1	S	No	YES	N/A
TUVU	1	8:52a	unk	1	N	No	YES	N/A
TUVU	1	8:54a	unk	1	ENE	No	YES	N/A
TUVU	5	8:54a	unk	1	SW	No	YES	N/A
AMKE	1	8:57a	unk	1	WNW	No	YES	N/A
AMKE	1	8:58a	unk	1	W	No	YES	N/A
AMKE	1	12:04p	unk	1	S	No	YES	N/A
TUVU	1	12:13	unk	1	E	No	YES	N/A
TUVU	1	12:14	unk	1	SE	No	YES	N/A
TUVU	4	12:14	unk	2	S	YES	YES	1 min *
TUVU	1	12:16	unk	1	S	No	YES	N/A
TUVU	2	12:17	unk	2	E	No	YES	1 min *
TUVU	4	12:17	unk	1	SE	No	YES	N/A
TUVU	2	12:19	unk	1	W	No	YES	N/A
TUVU	1	12:20	unk	1	W	No	YES	N/A
TUVU	13	4:08p	unk	1,2	S	YES	YES	1 min *
Total:	41							

* face visible

DIURNAL MIGRATION SURVEY FORM

Company: AES Project name: Jeneca Wind Farm Date: 10/7/08 Point number: 1 (CR23)

Survey period: Morning Afternoon Evening Start time: 9:00 A End time: 12:00 P

Weather Temp (°C): 50 Wind speed (m/s): 10-20 Cloud cover 100 %

Observer: BES Notes: Wind gusts > 25 mph

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
RTHA	2	9:00A	mature	1,2	SSE	No	YES	7 min
TUVU	1	9:00A	unk	1,2	SE	No	YES	3 min
TUVU	1	9:13A	unk	1	WSW	No	YES	N/A
TUVU	1	10:23A	unk	1	W	No	YES	N/A
TUVU	1	11:07A	unk	1,2	ENE	No	YES	3 min
TUVU	1	11:09A	unk	1	N	No	YES	N/A
TUVU	1	11:27A	unk	1,2	NW	No	YES	1 min
TUVU	1	11:52A	unk	1	W	No	YES	N/A
Total:	9							

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).

DIURNAL MIGRATION SURVEY FORM

Company: AES Project name: Keucah Farm Date: 10/7/09 Point number: 2 (T17)

Survey period: Morning Afternoon Evening Start time: 12:30p End time: 4:00p

Weather Temp (°C): 55 Wind speed (m/s): 10-20 Cloud cover 90 %

Observer: DES Notes: Wind gusts > 25 mph

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
<u>TUVA</u>	<u>1</u>	<u>12:30</u>	<u>unk</u>	<u>1</u>	<u>N</u>	<u>NO</u>	<u>YES</u>	<u>N/A</u>
<u>TUVA</u>	<u>1</u>	<u>12:30</u>	<u>unk</u>	<u>1</u>	<u>NW</u>	<u>NO</u>	<u>YES</u>	<u>N/A</u>
<u>TUVA</u>	<u>1</u>	<u>12:31</u>	<u>unk</u>	<u>1</u>	<u>N</u>	<u>NO</u>	<u>YES</u>	<u>N/A</u>
<u>TUVA</u>	<u>1</u>	<u>12:34</u>	<u>unk</u>	<u>1</u>	<u>SE</u>	<u>NO</u>	<u>YES</u>	<u>N/A</u>
<u>TUVA</u>	<u>1</u>	<u>12:42</u>	<u>unk</u>	<u>1</u>	<u>NE</u>	<u>NO</u>	<u>YES</u>	<u>N/A</u>
<u>TUVA</u>	<u>1</u>	<u>12:51</u>	<u>unk</u>	<u>1</u>	<u>SE</u>	<u>NO</u>	<u>YES</u>	<u>N/A</u>
<u>TUVA</u>	<u>1</u>	<u>1:06</u>	<u>unk</u>	<u>1</u>	<u>NW</u>	<u>NO</u>	<u>YES</u>	<u>N/A</u>
<u>TUVA</u>	<u>1</u>	<u>1:27</u>	<u>unk</u>	<u>1</u>	<u>N</u>	<u>NO</u>	<u>YES</u>	<u>N/A</u>
<u>TUVA</u>	<u>2</u>	<u>1:51</u>	<u>unk</u>	<u>1</u>	<u>SW</u>	<u>NO</u>	<u>YES</u>	<u>N/A</u>
<u>TUVA</u>	<u>2</u>	<u>2:02</u>	<u>unk</u>	<u>1</u>	<u>N</u>	<u>NO</u>	<u>YES</u>	<u>N/A</u>
<u>TUVA</u>	<u>1</u>	<u>2:23</u>	<u>unk</u>	<u>1</u>	<u>NE</u>	<u>NO</u>	<u>YES</u>	<u>N/A</u>
<u>TUVA</u>	<u>1</u>	<u>2:55</u>	<u>unk</u>	<u>1,2,3</u>	<u>WSW</u>	<u>YES</u>	<u>YES</u>	<u>12 min</u>
Total:								

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).



Project name: Seneca Wind Farm Date: 10/7/09

Point number: 2 (T17)

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TUVU	1	2:48p	unk	1	N	NO	YES	N/A
TUVU	3	2:51p	unk	1	SE	NO	YES	N/A
TUVU	1	3:15p	unk	1	NW	NO	YES	N/A
TUVU	1	3:32p	unk	1	N	NO	YES	N/A
TUVU	5	3:48p	unk	1,2	SSW	NO	YES	4 min
TUVU	1	3:54p	unk	1	NNW	NO	YES	N/A
Total:	12							

INCIDENTAL RAPTOR REPORT

8:45A - 2:45P

FORM WD03
6/27/08OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WILDLIFE

EES

Page 1 of 1

Project name: Seneca Wind Farm Date: 10/8/09Point number:

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TUVU	1	12:06p	unk	1	SW	NO	YES	N/A
TUVU	2	12:07p	unk	2	SE	NO	YES	1 min *
TUVU	2	12:09p	unk	1	SE	NO	YES	N/A
TUVU	1	12:13p	unk	1	W	NO	YES	N/A
TUVU	1	12:13p	unk	1	S	NO	YES	N/A
TUVU	1	12:19p	unk	1	SE	NO	YES	N/A
TUVU	1	12:19p	unk	1	SW	NO	YES	N/A
RTHA	1	2:37p	unk	1	W	NO	YES	N/A
Total:	10							

* time visible

NOTE - left after KC's visit on Thurs -
 Fair predicted all day Fri.

DIURNAL MIGRATION SURVEY FORM

Company: 5 Project name: Seneca Lake Farm Date: 10/8/09 Point number: 2 (T17)

Survey period: Morning Afternoon Evening Start time: 9:00A End time: 12:00p

Weather Temp (°C): 47 Wind speed (m/s): 5-15 Cloud cover 90 %

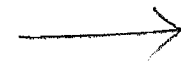
Observer: 2 Notes: _____

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TW	1	9:00A	unk	1.2	NNE	NO	YES	4 min
TW	1	10:07A	unk	1.2	SW	NO	YES	2 min
TW	12	10:13A	unk	1.2	S	YES	YES	13 min
TW	1	10:20A	unk	1	NE	NO	YES	N/A
TW	1	10:22A	unk	2	N	NO	YES	1 min
TW	2	10:41A	unk	1	A	NO	YES	N/A
TW	2	10:55A	unk	1	C	NO	YES	N/A
TW	1	11:07A	unk	1	NE	NO	YES	N/A
TW	1	11:07A	unk	1	SSW	NO	YES	N/A
TW	13	11:11A	unk	1.2	SSW	YES	YES	15 min
2A	1	11:14A	unk	1	1A-perched	NO	YES	N/A
Total:	37							

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).



Point number: 2 (T7)

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TUVU	5	11:21A	wrk	1,2	ESE	YES	YES	25 min
TUVU	3	11:33A	wrk	1,2	S	YES	YES	6 min
TUVU	2	11:42A	wrk	1	NE	NO	YES	N/A
TUVU	2	11:58A	wrk	1,2	NE	NO	YES	2 min
Total:	12							

DIURNAL MIGRATION SURVEY FORM

Company: AES Project name: ca - 1st run Date: 10/8/09 Point number: 1 (CR23)

Survey period: Morning Afternoon Evening Start time: 12:30 p End time: 2:30 p

Weather Temp (°C): 56 Wind speed (m/s): 5-10 Cloud cover 100 %

Observer: K. S Notes: QA/QC visit w/ KC & Tim Galloway (RMT)
1:55 pm - 1st run - 1st bird - 1st bird of CR23 field

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TWVU	2	12:30	unk	1	S	NO	YES	N/A
TWVU	1	12:39	unk	1,2	E	NO	YES	6 min
TWVU	1	12:49	unk	1,2	ENE	NO	YES	4 min
TWVU	1	12:55	unk	2	NW	NO	YES	2 min
RTHA	1	1:03 p	unk	1	E	NO	YES	N/A
TWVU	6	1:34	unk	1,2	ENE	NO	YES	10 min
TWVU	3	1:47	unk	1,2	SE	NO	YES	5 min
NOH	1	2:01	atm	1	N	NO	YES	N/A
Total:	16							

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).

* 1st run - 1st bird - 1st bird of CR23 field
2:15 pm

8:30 - 1:10 P

tes

Project names: Seneca Wind Farm Date: 10/14/09

Point number: 8000000000000000000

* fine visible

Observer: EG Notes: Began sprinkling at 9:15am. Rained throughout morning.

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
BRA	1	08:50	ch	1	SE	NO	YES	12/4
Total:	1							

Direction: Compass direction the bird is heading (e.g: SSW).

NOTE - Went to Int 2 for
PM survey because rain
had lightened, but left at 1:00 pm
after rain picked back up and
no rains were in sight

* Left at day - rain
Tide through end; seek

INCIDENTAL RAITOR REPORT

FORM WD03
6/27/08

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WILDLIFE

8:45 am - 4:15 pm

75

Page 1 of 1

Project name: Seneca Wind Farm Date: 10/19/09

Point number: ~~00000000~~

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TUVU	1	12:17p	wrk	1	W	NO	YES	N/A
Total:								



DIURNAL MIGRATION SURVEY FORM

Company: AES Project name: Jennex Wind Farm Date: 10/19/09 Point number: 2 (T17)

Survey period: Morning Afternoon Evening Start time: 9:00A End time: 12:00P

Weather Temp (°C): 40 Wind speed (m/s): 15-20 mph SSW Cloud cover 15 %

Observer: EES Notes: Wind gusts over 25 mph

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
RTHA	1	10:19A	mature	1	S	NO	YES	N/A
RTHA	2	10:22	mature	1,2	NE	NO	YES	10 min
TUVU	4	10:39A	unk	1,2	SW	YES	YES	14 min
TUVU	1	10:43A	unk	1,2	SSE	NO	YES	3 min
TUVU	1	11:03A	unk	1	SW	NO	YES	N/A
TUVU	1	11:14A	unk	1,2	SW	NO	YES	2 min
TUVU	1	11:31A	unk	1	NE	NO	YES	N/A
TUVU	3	11:49A	unk	1,2	ESE	YES	YES	3 min
RTHA	2	11:51A	mature	1,2	SE	NO	YES	2 min *
TUVU	1	11:57A	unk	2	SE	NO	YES	1 min
Total:	17							

→ at opposite ends of survey area

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).

* not sure if this is the same pair as observation #2



DIURNAL MIGRATION SURVEY FORM

Company: AES Project name: Shoreland Wind Farm Date: 10/19/09 Point number: 1 (CR 23)

Survey period: Morning ☐ Afternoon ☒ Evening ☐ Start time: 12:30 p End time: 4:00 p

Weather Temp (°C): 52 Wind speed (m/s): SSW 10-20 Cloud cover 20 %

Observer: GES Notes: Survey did last until 4pm - no raptor sightings after 1:11.

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
RTHA	1	12:30p	mature	1,2	S	NO	YES	1 min
TRIS	60	12:30p	unk	1,2	S	NO	YES	60 min
TUVK	1	12:52p	unk	2	SE	NO	YES	2 min
RTHA	1	1:11 p	mature	1,2	WNW	NO	YES	4 min
Total:	63							

large flock
flying in
various
directions
over CRP
field,
gradually
moving S.

#: Number in flock or kettle.
Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.
Direction: Compass direction the bird is heading (e.g. SSW).

~~FORM WD03~~
6/27/08

8:30 - 4:10p
EES

Project name: Seneca Wind Farm

Date: 10/20/09

Point number: _____

*time visible



Company: AES Project name: Pewee Wind Farm Date: 10/20/05 Point number: 1 (CR23)

Survey period: Morning Afternoon Evening Start time: 9:00 A End time: 12:00 P

Weather Temp ($^{\circ}\text{C}$): 50 Wind speed (m/s): 5-12 Cloud cover 20 %

Observer: EES Notes:

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TRES	80	9:00A	imm	1,2	W	No	YES	20 min
NOHA	1	10:31A	mature ♀	1,2	N	No	YES	1 min
Total:	81							

Direction: Compass direction the bird is heading (e.g. SSW).

- 3071 Hwy 1
over DCR
field, some
young nest
to say field
across road



DIURNAL MIGRATION SURVEY FORM

Company: AES Project name: Seneca Wind Farm Date: 10/20/09 Point number: 2 (T17)

Survey period: Morning ☐ Afternoon ☒ Evening ☐ Start time: 12:30p End time: 4:00p

Weather F Temp (°C): 59 Wind speed (m/s): 10-15 ^{mph SW} Cloud cover 70 %

Observer: EES Notes: Wind gusts > 20 mph

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TUVU	5	12:41p	unk	1,2	SSW	NO	YES	5 min
TUVU	1	1:48p	unk	1,2	SW	NO	YES	1 min
RTHA	1	1:56p	mature	1,2	S	NO	YES	1 min
TUVU	2	2:13p	unk	2	ESE	NO	YES	4 min
TUVU	1	2:27p	unk	1,2	W	NO	YES	2 min
TUVU	1	2:41p	unk	1,2	NE	NO	YES	2 min
RTHA	2	2:50p	mature	1,2	WNW	NO	YES	3 min
TUVU	1	3:41p	unk	1,2	S	NO	YES	5 min
RTHA	1	3:52p	mature	1	N	NO	YES	N/A
Total:	15							

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).

INCIDENTAL RAPTOR REPORT

~~FORM WD03~~
6/27/08

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WILDLIFE

8:45a-4:10p

Page 1 of 1

ES

Project name: Seneca Wind Farm Date: 10/21/09

Point number: _____

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TUVN	2	12:02p	wake	1	W	No	YES	N/A
TUVN	2	12:10p	wake	1	SW	No	YES	N/A
TUVN	1	12:13p	wake	1	S	No	YES	N/A
TUVN	1	12:14p	wake	1	N	No	YES	N/A
RTHA	1	4:05p	wake	1	W	No	YES	N/A
Total:	7							



DIURNAL MIGRATION SURVEY FORM

Company: AES Project name: Jenaca Wind Farm Date: 10/21/09 Point number: 2 (T17)

Survey period: Morning Afternoon Evening Start time: 9:00 A End time: 12:00 P

Weather Temp (°C): 53 Wind speed (m/s): 5-15 ^{mph SW} Cloud cover 10 %

Observer: BJS Notes: _____

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TUVU	8	10:05A	unk	1,2	SW	YES	YES	10 min
TUVU	1	10:17A	unk	1	E	NO	YES	N/A
RTHA	2	10:31A	mature	1,2	ESE	NO	YES	6 min
BAEA	1	10:47A	juvenile	1,2	W	NO	YES	1 min
TUVU	1	11:22A	unk	1,2	SW	NO	YES	4 min
TUVU	1	11:40A	unk	2,3	SE	NO	YES	7 min
RTHA	1	11:59A	mature	1	WSW	NO	YES	N/A
Total:	15							

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).



DIURNAL MIGRATION SURVEY FORM

Company: AES Project name: Seneca Wind Farm Date: 10/21/09 Point number: 1 (CR 23)

Survey period: Morning Afternoon Evening Start time: 12:30 p End time: 4:00 p

Weather F Temp (°C): 65 Wind speed (m/s): 5-12 ^{mph SW} Cloud cover 10 %

Observer: EES Notes: _____

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
TUVU	21	12:34 p	unk	2,3	S	YES	YES	7 min
TUVU	2	12:51 p	unk	1,2	WSW	NO	YES	1 min
TUVU	1	1:38 p	unk	1	S	NO	YES	N/A
NOHA	1	1:41 p	mature ♀	1,2	NNW	NO	YES	4 min
RTHA	1	2:52 p	mature	1,2	S	NO	YES	2 min
Total:	26							

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).

8:30 - 4:10 p

DES

Project name: Sevaca Wind Farm Date: 10/28/09

Point number: _____

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
RTLA	1	12-24 p	unk	1	N/A - perched	No	YES	N/A
Total:	1							



DIURNAL MIGRATION SURVEY FORM

Company: AES Project name: Seneca Wind Farm Date: 10/28/09 Point number: 1 (CR23)

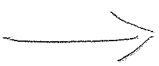
Survey period: Morning Afternoon Evening Start time: 9:00A End time: 12:00p

Weather Temp (°C): 51 Wind speed (m/s): 5-12 Cloud cover 100 %

Observer: EES Notes: Very light drizzle at first - skies clearing by 9:30

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
RYHA	1	9:26A	mature	1	E	NO	YES	N/A
NOHA	1	11:34A	mature ♀	1	SW	NO	YES	N/A
Total:	2							

#: Number in flock or kettle.
Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.
Direction: Compass direction the bird is heading (e.g. SSW).



DIURNAL MIGRATION SURVEY FORM

Company: AES Project name: Seneca Wind Farm Date: 10/23/09 Point number: 2 (T17)
Survey period: Morning Afternoon Evening Start time: 12:30 p End time: 4:00 p
Weather Temp (°C): 59 Wind speed (m/s): 5-12 Cloud cover 100 %
Observer: EES Notes: _____

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
Total:	0							

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).

8:45a-4:15p
DES

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WILDLIFE

Page 1 of 1

Point number:

DIURNAL MIGRATION SURVEY FORM

Company: AES Project name: Levea Wind Farm Date: 10/29/09 Point number: 2 (T17)

Survey period: Morning Afternoon Evening Start time: 9:00A End time: 12:00p

Weather Temp (°C): 49 Wind speed (m/s): 3-10 Cloud cover 100 %

Observer: KES Notes: Light fog at first (~2 mi visibility) - lifting by 10

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
CANG	12	9:11A	unk	2	SE	NO, but migrating	YES	3 min
CANG	3	9:46A	unk	1	S	NO, but migrating	YES	N/A
Total:	15							

#: Number in flock or kettle.

Heights: 1) 0-40m, 2) 40-180m, 3) > 180m.

Direction: Compass direction the bird is heading (e.g. SSW).



Company: AES Project name: Seneca Wind Farm Date: 10/29/09 Point number: 1 (CR23)

Survey period: Morning ☐ Afternoon ☒ Evening ☐ Start time: 12:30 p End time: 4:00 p

Weather ☐ F Temp (°C): 58 Wind speed (m/s): ^{mph} SE 5-15 Cloud cover 95 %

Observer: EES Notes:

Species	#	Time	Age	Observation		Circling (yes/no)	Entered project area (yes/no)	Estimated time within rotor area
				Height	Direction			
NOHA	1	2:19 p	mature ♀	1	N	NO	YES	N/A
Total:	1							

- reappeared
at 3:03 P
heading
NE over
CRP field

Direction: Compass direction the bird is heading (e.g. SSW).

* Raining Fri, 10/30 —
Did not conduct survey

APPENDIX 9. SPRING PASSERINE SURVEY DATA SHEETS

BIRD SURVEY FORM

Project Name: SENECA WIND FARM Survey type: PASSERINE Date: 4-4-09

Observer: HKO Start time: 10:46 (military time) Stop time: 10:56

Point number: 13 Temp (°C): 8 Wind speed (m/s): 20 km Cloud cover 0%

[illegible]

UN BUTEO SEEN AFTER SURVEY PERIOD

BIRD SURVEY FORM

Project Name: SENECA WIND TAIL Survey type: PASTORINE Date: 4-2-09
MIGRATION

Observer: AKO Start time: 10:12 (military time) Stop time: 10:22

Point number: 04 Temp (°C): 13 Wind speed (m/s): 6 Cloud cover 100%

[illegible]

FORM WD02 OHIO DEPARTMENT OF NATURAL RESOURCES
6/27/08 DIVISION OF WILDLIFE

Page 1 of 1

Observer: HKO Start time: 10:40 (military time) Stop time: 10:50

Point number: 06 Temp (°C): 10 Wind speed (m/s): 20 Cloud cover: 10 %
KNOTS

[illegible]

GOLDEN-CROWNED
KINGLET

SEWPG005

Observer: HKO+CC Start time: 0821 (military time) Stop time: 0831
SEWPG005
Point number: 16 Temp (°C): 8 Wind speed (m/s): SE ^{3 knots} Cloud cover 5 %

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
EAPH	20	W	2	T1
RBWO	40	SW	1-2	T1
TUVU	100	S	1	FLYOVER
<hr/>				
RWBL	100	NW	3	T1
COGR	100	W	10	FLYING OVER
SOSP	20	N.	1	T1
NOCA	50	S.	1	T1
AMPO	75	W	3	T1
BLJA	100	W	3	X
RTHA	100	SW	1	X
GBHE	—	W	1	X
EUST	50	W	4	X
WBNU	50	SE	1	X
BHCO	30	W	5	T1

RED-TAILED
HAWK

* SEEN IN APPROPRIATE CLOUDS - T1/TAT

SEWTP006

BIRD SURVEY FORM

Project Name: SEWICA WIND FARM Survey type: PASSERINE MIGRATION Date: 4-3-09

Observer: AKO Start time: 9:50 (military time) Stop time: 10:00

Point number: 5 Temp (°C): 13 Wind speed (m/s): 4 SW Cloud cover 100 %

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
ETTI	10	NE	2	T1
NOCA	1	W	5	T1
RBWD	30	SW	1	T1
RWBL	10	W	6	T1
BLJA	20	W	2	OS
DO WD	100	SE	2	OS
AMRO	10	SW	4	T1
BCCH	5	W	2	T1
EAME	150	E	1	OS
SOSP	3	E	2	OS
UNPA#1	40	S	1	
DEJU	40	E	1	X
EAPH	5	N	1	T1
EU ST	20	W	1	OS

EASTERN MEADOWLARK

* 2 UN DUCKS

FLYOVER AFTER COUNT PERIOD

Point number: 3 Temp (°C): 14 Wind speed (m/s): 5⁵ Cloud cover 35%

[illegible]

BIRD SURVEY FORM

Project Name: SENECAWIND FARM Survey type: PASSERINE MIGRATION Date: 4-4-07

Observer: HKO Start time: 7:32 (military time) Stop time: 7:42

Point number: 01 Temp (°C): +1 Wind speed (m/s): 25 Cloud cover 0%

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
TUVU	10	S	4	X
NOCA	25	SE	1	T1
AMCR	15	W	1	X FLYOVER
AMRD	15	E	2	X
RWBL	20	E	25	FLYOVERS X
UN DU #	100	E	10	FLYOVERS X
MODD	20	E	2	X
NOFL	15	S	2	T1
RBWD	20	NW	3	T1
RBGU	70	E	4	FLYOVER
ETTI	30	E	3	T1
KILL	50	S	1	X
AMRE	30	W	1	X FLYOVER
COBR	20	E	6	X FLYOVERS
EAPH	30	E	1	T1
BLJA	20	E	2	X

Observer: HKO Start time: 7:08 (military time) Stop time: 7:18

Point number: 02 Temp (°C): -1 Wind speed (m/s): 18 ^W ~~Km/h~~ Cloud cover 0 %

[illegible]

AMCRESGBITE POST-COUNT PERIOD

Observer: HKO Start time: 8:15 (military time) Stop time: 8:25

Point number: 07 Temp (°C): 2 Wind speed (m/s): 20 Cloud cover 0%

[illegible]

* HOLD AFTER COUNT PERIOD
HORNED LARKS

Observer: HKO Start time: 907 (military time) Stop time: 9:17

Point number: 09 Temp (°C): 4 Wind speed (m/s): 20-25 Cloud cover 0 %

[illegible]

GREAT-BLUE
HERON

BIRD SURVEY FORM

Project Name: SENECA WIND FARM Survey type: PASSERINE
MIGRATION Date: 4-4-04

Observer: HKO Start time: 9:39 (military time) Stop time: 9:49

Point number: 11 Temp (°C): 4 Wind speed (m/s): 30 Cloud cover 0 %

[illegible]

FORM WD02
6/27/08

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WILDLIFE

Page 1 of 1

BIRD SURVEY FORM

Project Name: SENECA WIND FARMS Survey type: PASSERINE
MIGRATION Date: 4-4-04

Observer: HKO Start time: 10:07 (military time) Stop time: 10:17

Point number: 10 Temp (°C): 5 Wind speed (m/s): 30 W Cloud cover 0 %

[illegible]

FORM WD02
6/27/08

OHIO DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WILDLIFE

Page 1 of 1

Observer: HKO Start time: 10:25 (military time) Stop time: 10:35

Point number: Scuf 0192 Temp (°C): _____ Wind speed (m/s): 20 Cloud cover 0 %

[illegible]

Observer: HKO Start time: 1022 (military time) Stop time: 1032Point number: SEWF017
17 Temp (°C): 18° Wind speed (m/s): 20⁵ Cloud cover 30%

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
SOSP	15	NW	2	T1
EAME	50	WNW	1	T1
RWBL	30	SE	6	T1
KILL	30	W	2	T1
AMRO	30	E	2	T1
UNPA#1	30	S	1	CALL
UNPA#2	40	W	1	CALL
TUVU	30	S	1	X
COSN			21 FLYOVER	AS APPROACHING SITE
RBWD	100	W	1	
BLJA	20	S	2	
AMGO	15	E	1	
EUST	10	S	3	
TUVU	10	E	3	
DEJU	10	E	3	NOTE3
AMRO	10	W	2	

10:40
10:50
ALT 18
USE ALT.
PER HEATHER

[illegible]

SEWPG019

BIRD SURVEY FORM

Project Name: SENECA WF Survey type: PASS Date: 4-9-09
MLB

Observer: HRD Start time: 957 (military time) Stop time: 1007

Point number: SEWPG005
05 Temp (°C): 5 Wind speed (m/s): 4.5 Cloud cover 0 %

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
AMRO	15	E	2	X
RWBL	20	NE	8	T7
BHCO	30	NE	1	T1
ETTI	80	E	3	T1
SOSP	10	W	2	T1
EAPH	10	W	1	T1
YBSA	60	W	3	T1 SLOW-W-W DRUMMING
DEJU	8	E	2	X
AMCR	200	SE	3	X
WBNU	50	W	2	T1
COGR	5	E	3	FLYOVERS
TUVU	10	W	1	X
BLJA	20	NE	2	X
NOFL	100	SW	1	T1
HOLA	50	SE	2	X
CAGO	30	SW	1	X
ATSP	8	NE	1	X

AMERICAN
TREE SPARROW

PROBABLY FROM
NEST

SEWFPg021

Observer: HKO Start time: 834 (military time) Stop time: 844

Point number: 04 Temp (°C): 3 Wind speed (m/s): 1 Cloud cover 0 %

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
EUST	10	S	30	VS
NOCA	15	S	4	TI
DOWO	40	N	1	TI
ETTI	20	N	1	TI
FISP	100	NW	1	TI
WODU	60	S	1	TI
RHWO	10	S	4	TI
BHCO	15	W	2	TI
WBNU	30	SE	1	X
CAGO	50	E	2	X
BLJA	75	W	2	X
AMRO	10	W	1	X
NOFL	25	W	1	TI
FOSP	40	NW	2	X
EATO	50	W	1	TI

FOR SPARROW

Swafey 022

Point number: 06 Temp (°C): 2 Wind speed (m/s): 2 k Cloud cover 0%

[illegible]

SEWPG005

Observer: HKO Start time: 935 (military time) Stop time: 945

Point number: 08 Temp (°C): 4 Wind speed (m/s): 10 W Cloud cover 0 %
SEWPG008

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
ETTI	40	N	1	T1
KILL	100	S	1	T1
RWBB	30	N	8	T1
AMGO	25	W	1	X
RBWO	80	N	1	T1
HOLA	40	S	4	T1
NOCA	40	NW	2	T1
NOFL	20	NW	2	X
AMRO	30	N	1	X
BHCO	60	E	2	X
GCKI	50	E	1	X
CAGO	200	SW	2	FLYOVER
RUBL	60	E	4	X
TUVU	100	W	1	X

RUSTY
BLACKBIRD

BIRD SURVEY FORM

Project Name: SENECA WF Survey type: PASSERINE MIGRATION Date: 4-08-09Observer: HKO Start time: 910 (military time) Stop time: 920Point number: 09 Temp (°C): +3 Wind speed (m/s): 10K^W Cloud cover 0 %
SEWTF 001

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
RHWO	15	N	4	TI
NOCA	5	S	2	TI
EUST	15	N	20	VS
AMRO	35	W	1	X
RBWO	20	W	1	X
EAPH	50	W	1	X
SOSP	25	SE	3	TI
COGR	30	E	2	X
RWBB	25	S	2	X
ROPI	30	E	1	FLYOVER X
BHCO	40	NE	3	X
MOJO	100	E	1	X
BRTH	80	SE	1	X

ROCK
PIGEDNBROWN
THRASHER

BIRD SURVEY FORM

Project Name: SENECA WF Survey type: PASSERINE
MIGRATION Date: 4-09-09

Observer: HKO Start time: 708 (military time) Stop time: 718

Point number: 17 Temp (°C): -1 Wind speed (m/s): 0 Cloud cover 0 %
5945017

[illegible]

[illegible]

Observer: HKO Start time: 723 (military time) Stop time: 733

Point number: 18 Temp (°C): -1 Wind speed (m/s): 0 Cloud cover 1 %

[illegible]

SEWFP034

BIRD SURVEY FORM

Project Name: SENECA WF Survey type: PASS Date: 04-16-09
MIGRATION

Observer: HKO Start time: 658 (military time) Stop time: 700

Point number: 09 Temp (°C): -1° Wind speed (m/s): 1 KN Cloud cover 0 %

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
EUST	10	NE	14	TI
AMRO	30	SSE	4	TI
BCCH	5	N	3	TI
ETTI	20	SW	3	TI
WODU	40	S	3	X
RBWO	50	SW	1	X
RHWO	70	N	2	TI
BLJA	25	S	3	X
SDSP	10	S	1	X
EAPH	40	SE	1	X
NOCA	40	SE	1	TI
RWBL	30	E	4	TI
COGR	15	E	4	X
AMGO	30	E	2	TI
AMCR	100	NE	1	X
DOWD	5	N	2	TI
BHCO	25	WSW	2	X

Observer: HKO Start time: 848 (military time) Stop time: 858

Point number: 13 Temp (°C): 3 Wind speed (m/s): 1^N Cloud cover 0 %

[illegible]

BIRD SURVEY FORM

Project Name: SENECA WF Survey type: PASS. MIGRATION Date: 04-16-09Observer: AKO Start time: 817 (military time) Stop time: 827Point number: 16 Temp (°C): 3 Wind speed (m/s): 1 ^N Cloud cover 0%
SUN 0110

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
BHCO	30	NW	6	TI
AMRO	15	SE	4	CM
RWBB	30	N	8	
EAPH	20	S	2	TI
FISP	75	S	1	TI
MODD	40	N	1	X
NOFL	50	SW	1	TI
GBHE	40	N	1	X IN CREEK
SOSP	20	N	3	TI
WBNU	40	S	1	TI
NOCA	50	E	2	TI
EAME	200	NNE	1	TI

* 20 DCCO (DOUBLE-CRESTED CORMORANTS) SEEN MIGRATING NORTH WHILE DRIVING TO SITE. FLOCK FLEW TO WEST OF SITE.

BIRD SURVEY FORM

Project Name: SENECA WF Survey type: PASS MIGRATION Date: 04-17-09Observer: HKO Start time: 652 (military time) Stop time: 702Point number: 02 Temp (°C): +1 Wind speed (m/s): 2 K Cloud cover 0 %

SEWFP002

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
WODU	35	S	1	SWIMMING ON POND
RWBL	10-200	SE-SW	10	4 FLYOVERS (4) ON TERRITORY S OF ROAD
FISP	40	E	1	TI
EAME	100	SE	1	TI
SOSP	25	SE	1	TI
FISP	100	S	1	TI
AMCR	150	W	1	X
RBWO	40/50	NW/NE	2	TI COUNTERDRUMMING
CAGO		S	1	
HAWO	70	NE	1	TI DRUMMING
AMCR	40	NE	1	X
RHWO	50	N	1	X
PIWO	60	NE	1	CALLING & TI DRUMMING
AMCR	20	NW	2	FLYOVERS
AMGO	5	N	2	X
AMGO	15	NE	2	X

PILEATED
WOODPECKER

Observer: HKO Start time: 712 (military time) Stop time: 722Point number: 01 Temp (°C): 2 Wind speed (m/s): 2 ^W Cloud cover 0 %
SEW pg 038

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
AMRO	10	SE	2	X
KILL	125	SE	1	
RWBL	10	S	2	FLYOVERS
COGR	0	E	2	FLYOVERS
AMRO	10	NE	1	
ETTI	40/30	NW/NE	2	COUNTERSINGING
BCCH	15	N	1	
KILL	50	W	1	
RBWD	50	S	1	CALLING & TI DRUMMING
SOSP	40	W	1	
ETTI	50	SW	1	
BHCO	5	E	3	FLYOVER
BLJA	30	E	2	
AMCR	20	NE	2	FLYOVER
EUST	20	NE	1	
AMCR	40	S	1	FLYOVER
AMRO	70	NW	1	TI
CAGO	150	SE	2	X
BLJA	60	N	1	X
WBNU	15	N	1	X

Observer: HKO Start time: 812 (military time) Stop time: 822Point number: 05 Temp (°C): 6 Wind speed (m/s): 0 Cloud cover 0 %

SEWFP005

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
NOCA	50/100	E	2	TI
ETTI	100/50	E	2	TI
AMRO	50	S	1	TI
CAGO	25	S	1	FLYOVER
RWBL	15	E	2	FLYOVER
COGR	15	E	2	FLYOVERS
AMCR	30	NE	2	FLYOVER
RWBL	5	W	2	TI
ETTI	40	SW	1	TI
BEKI	30	NW	1	X CALLING
RCKI	0	W	2	X
RCCH	40	W	1	X
RWBL	20	N	1	FLYOVER
DEJU	10	E	5	X
RCKI	3	E	2	X
BLJA	60	W	1	X
SOSP	10	W	1	TI
DOWB	30	W	1	PO
NOFL	30	SW	1	X
BLJA	40	N	1	X
BHCO	30	N	2	X
RBWB	35	NE	1	X
AMRO	45	E	1	TI

NOCA 25 W 1 TI
 BHCO 10 NW 1 X
 MALL 0 W 1 X

BELTED
KINGFISHER

BIRD SURVEY FORM

Project Name: SENECA WF Survey type: PASS Date: 04-17-09Observer: HKO Start time: 848 (military time) Stop time: 858Point number: 04 Temp (°C): 4 Wind speed (m/s): 0 Cloud cover 0 %

SEWFPSC40

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
EATO	8	SE	1	X
NOEL	40	SSE	1	T1 CALLING, DRUMMING
RHWD	40	S	3	COUNTERCALLING, CHASING
DOWD	20	SE	1	T1 DRUMMING
BHCO	10	NE→SE	3	X
BLJA	60	NE	1	X
NOCA	50	NE	1	T1
ETTI	30	S	1	T1
EUST	20-50	SE/S/SW	12	T1
RWBL	20	S	1	FLYOVER
CAGO	150	NF	2	X
RHWD	40	E	1	T1
DOWD	35	SE	2	CHASING
RWBL	5	SW	2	FLYOVERS
AMRD	40	NW	1	SPATTERCALL
COGR	5	E	2	FLYOVERS
AMGO	2	E	1	FLYOVER
RWBL	0	E	4	FLYOVERS
WBNU	20	SE	1	X
MOJO	100	NE	1	X
	1	1	1	

EASTERN
TOWHEE

SEWTP041

BIRD SURVEY FORM

Project Name: SENECA WF Survey type: PASS Date: 04-17-09
MIGRATION

Observer: HKO Start time: 834 (military time) Stop time: 844

Point number: 06 Temp (°C): 6 Wind speed (m/s): 1 Cloud cover 0%

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
TUVU	100	NE	1	X PERCHED
AMGO	5	E	2	FLYOVER
AMRO	10	SW	3	CHASING
FISP	20	S	1	T1
PIWO	45	NW	1	X CALLING
BLJA	40	SE	1	X
BLJA	30	NW	1	X
BHCO	20	S	1	X
RWBL	5	E	1	X FLYOVER
WBNU	30	NE	1	X
FISP	50	NE	1	T1
RCKI	30	N	1	X
SOSP	40	E	1	T1
ETTI	40	SW	1	T1
RBWD	25	NW	1	X CALLING
RWBB	5	S	1	X
WIWR	20	SE	1	X
EAPH	10	S	1	X

RUBY-CROWNED KINGLET

WINTER WREN

SEWFP5042

Observer: HKO Start time: 857 (military time) Stop time: 907

Point number: 17 Temp (°C): 9 Wind speed (m/s): 1 Cloud cover 0 %

SEWFP017

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
AMRO	25	N	2	X
BHCO	8	NE	2	X
SOSP	30	S	1	TI
AMGO		SW	4	X
RWBL	50	SSE	1	X
BHCO	5	W	1	X
WBNII	10	W	1	X
DOWO	5	NW	1	X
AMRO	20	S	2	TI
WTSP	5	SE	1	X
NOFL	50	NW	1	CALLING
RWBL	5	N	2	FLYOVER
BRTH	30	N	1	X
EUST	10	S	1	X
BHCO	30	S	2	X
RWBL	25	SW	1	X SINGING
AMCR	60	E	1	X
BLJA	40	SW	1	X
RBWD	50	N	1	X SINGING
WTSP	15	NE	1	X
SOSP	20	N	2	X
}	}	}	}	}
}	}	}	}	}

WHITE-THROATED
SPARROW

BIRD SURVEY FORM

Project Name: SENECA WF Survey type: PASS, MIGRATION Date: 4-16-09Observer: HKO Start time: 745 (military time) Stop time: 755Point number: 18 Temp (°C): 2 Wind speed (m/s): 0 Cloud cover 0 %

SEWFC018

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
SOSP	30	N	1	T1
CAGO	100	W	4	T1
AMRO	20	N	2	X
EAPH	40	SW	1	X
RWBL	1	SW	10	T1
FISP	200	SW	1	T1
COGR	200	S	10	X
EUST	125	SW	4	X
ETTI	40	SW	2	T1
EAME	150	E	1	T1
DOWD	40	N	1	T1
BHCO	35	NW	1	T1
WODU	100	N	1	X
NOCA	100	N	1	T1
BQCH	50	W	2	X
NOFL	15	W	1	X
GCKI	50	NW	1	X

6/27/08

DIVISION OF WILDLIFE

4-16-09

Observer: HKO Start time: 915 (military time) Stop time: 925

Point number: 12 Temp (°C): 6 Wind speed (m/s): 2^N Cloud cover 0%

SEWFO12

[illegible]

SEWFP045

BIRD SURVEY FORM

Project Name: SENECA WF Survey type: PASS. MIGRATION Date: 04-16-09Observer: HKO & KIM CHAPMAN Start time: 1008 (military time) Stop time: 1018Point number: 08 Temp (°C): 9 Wind speed (m/s): 1 ^N Cloud cover 0 %
SEWFP008

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
NOFL	10	N	1	TI
FISP	50	NW	1	TI
RWBL	50	NW	1	TI
AMRO	40	NW	1	TI
BHCO	3	E	1	X
AMRO	5	NW	2	TI
NOCA	25	N	1	TI
RWBL	60	E	1	TI
NOCA	30	NE	1	TI
BLJA	60	N	1	X
ETTI	100	NE	1	TI
NOFL	50	NE	1	X
RWBL	0	E	1	FLYOVER
SOSP	30	W	1	TI
BHCO	40	E	1	X
KILL	65	SE	1	X
AMRO	100	N	1	X

BIRD SURVEY FORM

Project Name: SENECA WF Survey type: PASS MIGRATION Date: 04-16-09Observer: HKO & KIM CHAPMAN Start time: 1036 (military time) Stop time: 1046Point number: 07 Temp (°C): 10 Wind speed (m/s): 2 Cloud cover 0%
SEWPG 007

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
ETTI	40	NE	1	T1 COUNTERSINGING
ETTI	30	E	1	T1
MOJO	40	SE	1	T1
RWBL	10	W	1	FLYOVER
NOFL	75	N	1	X SINGING
TUVU	20	E	4	FLYOVER
NOCA	100	N	1	T1
EUST	30	SE	2	X
RBWD	50	NE	1	T1
CHSP	60	E	1	T1
NOFL	75	NE	1	X SINGING
NOCA	40	NW	1	T1
AMGO	30	W	1	X
MOJO	80	NE	1	X
AMCR	100	N	2	X
AMRO	150	NW	1	X
AMGO	60	E	1	X

BIRD SURVEY FORM

Project Name: SENECA WF Survey type: PASS
MIGRATION Date: 04-17-09Observer: HKO Start time: 925 (military time) Stop time: 935Point number: 03 Temp (°C): 8 Wind speed (m/s): 1 Cloud cover 0 %

SEWfpg 003

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
RWBL	35	N	13	FORAGING IN FIELD
EAME	50	W	1	X
BHCO	30	N	2	X
MODD	200	N	1	CALLING
FISP	150	SW	1	T7
NOFL	70	SW	2	COUNTER-CALLING
BLJA	200	E	1	X
AMRO	100	W	1	T1
BAEA	200	E	1	ON NEST
AMRO	75	E	1	T1
EAPH	10	SE	1	X
RBWD	100	SE	1	CALLING
RBWD	100	E	1	"
AMRO	10	E	2	T1
BLJA	100/100	W/SW	2	X
WBNU	50	SE	1	T1
ETTI	30	SE	1	T1
HOLA	50	SW	1	X

Observer: HKO Start time: 924 (military time) Stop time: 934Point number: 18 Temp (°C): 6 Wind speed (m/s): 4 Cloud cover 0 %

SEWFPJ048

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
ETTI	80	N	1	T7
DOWO	40	W	2	X
HOLA	40	E	2	X
ETTI	40	SW	2	T7
COGR	80	S	1	FLYOVER
AMGO	50	NE	2	X
AMCR	150	N	1	X
BCCH	30	W	1	T1
BHCO	20	W	2	X
BHCO	40	S	1	X
AMCR	100	NW	1	X
RWBL	75	S	1	X
AMGO	50	S	2	X
WBNU	30	S	1	X
BLJA	50	NW	1	X
WODU	70	NW	1	X
RBWO	25	SW	1	X
CAGO	40	SW	2	T1 PAIRED SWIMMING
BGGN	30	SW	1	X
MODO	80	S	1	T1
MODO	100	NE	1	T1
EUST	80	SW	1	FLYOVER
COER	120	SW	8	X AT FARM

BLUE-GRAY
GNATCATCHER

SEW049

BIRD SURVEY FORM

Project Name: SENECA WF Survey type: PASS MIGRATION Date: 04-23-09Observer: HKO Start time: 857 (military time) Stop time: 907Point number: 16 Temp (°C): 5 Wind speed (m/s): 3 Cloud cover 0 %
SEW049

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
EAPH	15	E	1	T7
RBWD	30	SW	1	T1
RWBL	20	N	1	T7
EAME	100	NE	1	T7
NOFL	40	SE	1	X
AMGO	15	N	1	X
RWBL	15	NW	1	T7
ETTI	45	W	1	T1
MODD	100	E	1	T1
FISP	60	NW	1	T1
RWBL	10	S	2	FLYOVERS
BHCO	30	SW	3	X
NOCA	25	SW	1	T1
WBNU	30	SE	1	X
NOCA	50	E	1	T1
RWBL	45	NE	1	X
EUST	20	NW	1	FLYOVER
COGR	15	SE	2	FLYOVER
MODD	150	NE	2	T1 COUNTERSINGING
KILL	100	W	1	T1
AMCR	100	NW	1	X

SOSP	30	N	1	T7
AMGO	40	N	2	X
TUVU	50			X
EAME	40	NE	1	X

Observer: HKO Start time: 918 (military time) Stop time: 928Point number: 02 Temp (°C): 17 Wind speed (m/s): 30+ Cloud cover 10 %

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
RWBL	50	SW	15	X FEEDING TOGETHER
EUST	50	SW	5	X " "
RWBL	50-200	S-SE	6	T1 OUTTERRITORY
FISP	50	E	1	T1
EAME	40	SE	1	T1
CAGO	150	SE	1	X
BARS	10	S	3	FLYING OVER POND
ROPI	45	S	1	X
RWBL	30	E	20	FLYOVERS
COGR	30	E	4	"
EUST	30	E	4	"
BHCO	40	W	1	X
AMGO	30	W	1	X
RWBL	25	E	1	FLYOVER
EAME	30	S	1	T1
STRONG SOUTH WINDS WILL HAVE PUSHED WOODS BIRDS FAR INTO WOODS, AWAY FROM THIS COUNT POINT.				

BIRD SURVEY FORM

Project Name: SENECA WF Survey type: PASS MIGRATION Date: 04-24-09Observer: HKO Start time: 900 (military time) Stop time: 910Point number: 01 Temp (°C): 16 Wind speed (m/s): 20-35 Cloud cover 15%

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
BLJA	40	NW	1	X
CHSP	35	W	1	T1
ETTI	40	N	1	T1
CHSP	30	E	2	T1
SOSP	30	SE	1	T1
BHCO	5	NE	1	X
AMCR	150	E	1	X
WBNU	75	SE	1	X
BLJA	50	SE	1	X
BLJA	100	NE	1	X
PIWD	100	SE	1	X CALLING
AMCR	75	N	2	X
BHCO	20	S	1	X
DOWD	50	S	1	X
AMGO	30	NE	2	X
EUST	40	E	1	X

BIRD SURVEY FORM

Project Name: SENECA WF Survey type: PASS. MIGRATION Date: 04-24-09Observer: HKO Start time: 813 (military time) Stop time: 823Point number: 05 Temp (°C): 15 Wind speed (m/s): 25⁵ Cloud cover 40%
SEWfpg05

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
PAWA	10	W	1	X
SOSP	30	W	1	TI
DOWO	45	W	1	TI
COGR	5	NE	2	X FLYOVERS
YRWA	20	NW	2	X
BHCO	5	W	2	X FEMALES
YELWA	20	NW	1	X
BHVI	30	NW	1	X
CAGO	150	E	1	X
NOCA	10	SW	1	TI
AMRO	30	NW	1	X
RWBL	25	NW	1	TI
SOSP	20	SW	1	TI
EUST	10	E	1	X FLYOVER
BHCO	25	W	2	X MALES
WBNU	50	NE	1	X
BCCH	2	N	2	X
DOWO	25	NE	1	TI
NOFL	5	E	1	X FLYOVER

PALM
WARBLERYELLOW
WARBLER
BLUE-HEADED
VIREO

Observer: HKO Start time: 832 (military time) Stop time: 842

Point number: 04 Temp (°C): 14 Wind speed (m/s): 20 Cloud cover 30%
52wfp004

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
BCCH	15	N	1	T1
BGGN	10	NE	1	X
EUST	20-50	SE-SW	12	T7
BHCO	2		1	X
EAPH	50	NE	1	T1
COGR	5	W	2	FLYOVER S
AMRO	25	NW	1	X
COGR	5	E	1	X FLYOVER
AMCR	80	W	2	X
RHWB	75	S	1	X
ETTI	30	SW	2	T1 COUNTERSINGING
TUVU	100	S		X
ETTI	50	SE	1	T1
DOWD	40	SE	1	T1 DRUMMING
EUST	20	N	2	T7
AMRO	2	S	1	X
RWBL	60	SE	1	T1
BLJA	100	S	1	X
COGR	80	W	1	X FLYOVER
BLJA	50	W	1	X
SSHA	30	SE	1	X
AMRO	80	E	1	T1
}	}	}	}	

BIRD SURVEY FORM

Project Name: SENECA WF Survey type: ^{PASS.}MIGRATION Date: 04-24-09Observer: HKO Start time: 656 (military time) Stop time: 706
5Point number: 03 Temp (°C): 12 Wind speed (m/s): 25 KN Cloud cover 50%
SEWFP003

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
RWBL	50	N	2	X
RWBL	70	NW	1	X
AMRO	150	SW	1	TI
BRTT	150	NW	1	X
NOCA	30	E	2	TI
COGR	10	S	1	FLYOVER
BCCH	40	E	1	X
RWBL	30	E	1	X
RWBL	25	S	1	X
AMRO	100	W	1	TI
BLJA	70	E	2	X
UNPA#	0	S	2	FLYOVERS
RWBL	20	S	1	FLYOVER
AMRO	100	SE	1	TI
AMRO	80	E	1	TI
ETTI	100	E	1	TI
COGR	15	S	1	FLYOVER
BAEA	30	W	1	FLYOVER
EAME	70	NE	1	TI
}	}	}	}	
}	}	}	}	

Observer: HKO Start time: 1020 (military time) Stop time: 1030

Point number: 17 Temp (°C): 9 Wind speed (m/s): 2^W Cloud cover 0 %

5245017

[illegible]

SEWF0057

BIRD SURVEY FORM

Project Name: SENECA WF Survey type: PASS MIGRATION Date: 04-23-09Observer: HKO Start time: 949 (military time) Stop time: 959Point number: 9 Temp (°C): 5 Wind speed (m/s): 3 Cloud cover 0 %

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
EUST	20-70	NE	8	T1 & X
RHWO	1	NW	2	T7
BRTH	50	SW	1	T7
RWBL	30	S	4	T1
COGR	10	S	2	T1
AMCR	80	NW	2	X
RHWO	2	NE	1	T7
RWBL	30	SE	4	X
NOCA	40	S	2	T1
RWBL	5	SW	1	FLYOVER
NOCA	50	N	2	T1
RBWD	15	N	1	T7
BHCO	30	S	2	X
COGR	20	S	1	FLYOVER
WODU	80	SE	1	FLYOVER
RWBL	60	E	1	FLYOVER
SOSP	10	S	1	X
WBNU	15	N	1	X
WODU	75	S	1	X
EUST	20-50	NW	8	T7
EDST	30	SW	6	T7

TU VU	25	NE	1	X
NO FL	40	NW	1	X
ETTI	30	W	1	X
AMCR	150	S	2	X
BCCH	15	N	1	X

Observer: HKO Start time: 830 (military time) Stop time: 840Point number: 13 Temp (°C): 5 Wind speed (m/s): 1 Cloud cover 0%
SEWFO13

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
HOLA	200	E	1	X
EABL	80	SE	1	X
HOLA	20	E	2	X
NOCA	40	NW	1	T7
CHSP	30	SW	1	T1
CHSP	40	SE	1	T1
KILL	80	N	1	X
ETTI	50	NW	1	T1
EUST	15	SW	1	T1
COGR	20	SE	1	FLYOVER
DOWD	20	W	1	T1
AMRO	30	S	1	T1
RWBL	30	N	1	X
AMCR	120	N	2	X
RWBL	10	NW	2	FLYOVER
ETTI	50	SW	1	T1
RWBL	20	S	1	FLYOVER
DOWD	35	N	1	X
AMRO	25	N	1	T1
AMCR	10	E	1	X
RWBL	20	W	2	FLYOVER
}	}	}	}	
}	}	}	}	

BIRD SURVEY FORM

Project Name: SENECA WF Survey type: ^{PASS}MIGRATION Date: 04-23-09Observer: HKO Start time: 810 (military time) Stop time: 820Point number: 12 Temp (°C): 3 Wind speed (m/s): 0 Cloud cover 0 %
SEWF 059

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
KILL	50	S	1	X
ETTI		N	1	T1
AMRO	20	W	2	T1
BRTH	40	SW	1	T1
CHSP	50	W	1	X
FISP	50	SE	1	T7
RBWO	40	SE	1	X
NOFL	70	N	1	X
NOCA	70	W	1	T7
NOCA	10	W	1	X
FISP	45	W	1	T1
RWBL	30	W	2	FLYOVER
AMGO	40	E	1	X
BLJA	60	N	1	X
FISP	40	E	1	T1
AMRO	30	S	1	T7
FISP	60	SW	1	T1
NOFL	50	NW	1	X
BCCH	50	E	1	X
BHCO	60	NE/SE	3	X

SEWFPg060

BIRD SURVEY FORM

Project Name: SENECA WF Survey type: PASS. Date: 4-23-09
MIGRATION

Observer: HKO Start time: 743 (military time) Stop time: 753

Point number: 11 Temp (°C): 1 Wind speed (m/s): 1 Cloud cover 0%
SEW-011

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
RWBL	40-100	NW-SW	8	OUT TERRITORIES IN FIELD
BHCO	40	SW	2	X
NOCA	50	SE	1	T1
CAGO	200	SW	1	FLYOVER
FISP	65	SW	1	T1
RWBL	20	S	1	T7
MODD	20	W	1	FLYOVER
RBWD	75	E	1	T1
RWBL	5	N	1	T7
NOFL	100	S	1	X
SAJP	5	S	1	X
AMRO	70	NW	3	X
EUST	30	SW	1	T1
FISP	50	SE	1	T1
AMRO	50	S	2	T1
RWBL	40	S	8	X
BHCO	35	SE	2	X
RBWD	50	NE	1	T1
DOWD	50	NE	1	T1
DOWD	40	E	1	T1
BLJA	50	S	1	X

SENECA
SPARROW

SEWFPY002

Observer: HKO Start time: 712 (military time) Stop time: 722Point number: 08 Temp (°C): -1 Wind speed (m/s): 0 Cloud cover 0 %
SEWFPY008

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
NOCA	40	NW	1	TI
MODU	50	E	1	X
NOFL	20	N	1	X
AMRO	20	W	1	TI
BHCO	75	E	4	X
NOFL	60	NW	1	X
AMRO	75	E	1	TI
FISP	50	N	1	TI
EUST	20	NW	1	X
AMGO	30	W	1	X
EUST	40	S	1	X
NOFL	60	NE	1	X
CHSP	50	E	1	TI
CHSP	70	NE	1	TI
COGR	10	S	1	FLYOVER
AMRO	45	N	1	TI
RBWO	60	NE	1	TI
ETTI	50	E	1	TI
RWBB	10	S	1	FLYOVER
RWBB	50	E	1	X
WITU	100	W	1	OS GOBBLING
RWBB	25	S	1	FLYOVER
RBWO	40	W	1	COUNTER DRUMMING
RBWO	50	NW	1	X
NOCA	25	NE	1	X
RWBL	20	SE	1	FLYOVER
COGR	20	W	1	FLYOVER

WILD
TURKEY

BIRD SURVEY FORM

Project Name: SENECA WF Survey type: PASS. MIGRATION Date: 04-23-09Observer: HKO Start time: 651 (military time) Stop time: 701Point number: 07 Temp (°C): 0 Wind speed (m/s): 0 Cloud cover 0 %

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
CHSP	30	SE	2	TI
AMCR	75	NE	4	X
EUST	30	SE	1	X
ETTI	20	N	1	T7
AMRO	40	SE	2	T7
BLJA	70	SE	1	X
DOWO	50	NE	1	TI
RBWO	40	NW	1	TI
WBNU	100	NNW	1	TI
EUST	15	N	1	X
AMGO	25	E	2	T7
COGR	0	W	2	FLYOVER
EAPH	30	E	1	TI
UNPA#1	5	N	2	FLYOVER
RWBB	50	SE	2	FLYOVER
BLJA	50	E	1	X
CHSP	5	S	1	TI
AMRO	75	NE	1	TI
HOLA		SW	2	X
AMGO	40	S	1	X
RWBL	50	S	1	X

COGR 5 S 1 FLYOVER

COGR 5 W 1 FLYOVER

*COHA 15 NW 1 FLEW INTO WOODS @ 703
15 NW 1 2 MIN LATER A SECOND FOLLOWED.

SEWFP064

BIRD SURVEY FORM

Project Name: SENECA WF Survey type: PASSERINE MIGRATION Date: 04-29-09

Observer: HKO Start time: 840 (military time) Stop time: 850

Point number: 18 Temp (°C): 12 Wind speed (m/s): 8 Cloud cover 100%

SEWFO18

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
ETTI	50	WNW	1	T1
NOCA	60	W	1	T1
RWBL	50	E	2	T7
BLJA	60	N	1	X
SOSP	40	N	1	T1
BHCO	30	SW	1	X
AMRO	100	S	1	T1
RWBL	75	N	2	X FLYOVERS
BHCO	40	NW	1	X
CAGO	150	NE	2	T1 COUNTERSINGING
AMGO	50	N	1	FLYOVER
UNPA ^{#1}	35	NW	1	X
CAGO	60	W	2	T1
WBNU	30	W	1	T1
BGGN	30	W	1	X
EAME	60	SE	1	T1
AMRO	75	W	1	T1
EUST	30	W	1	X
HOWR	50	N	1	T1
TUVU	20	W	1	FLYOVER
RWBL	5	S	1	FLYOVER

SEE P. 2

SLWFP9066

Observer: HKO Start time: 725 (military time) Stop time: 735

Point number: 06 Temp (°C): 14 Wind speed (m/s): 5 Cloud cover 10 %

SLWFP9066

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
FISP	10	E	1	X
RBWO	20	N	1	X
FISP	100	NW	1	TI
BLJA	30	S	2	X
HOWR	20	N	1	X
BGGN	20	S	1	V
BHCO	10	S	1	X
NOCA	40	SW	1	TI
COGR	15	NE	1	FLYOVER
BRTH	60	E	1	TI
AMRO	15	SW	2	TI
MODO	200	S	1	X
SCTA	10	S	1	X
BGGN	35	NW	1	X
UNPA#1	15	S	1	FLYOVER
UNPA#2	20	NE	1	FLYOVER
KILL	100	NE	1	TI
ETTI	100	W	1	TI
RWBL	20	S	1	FLYOVER
EATO	100	S	1	TI

SCARLET
TANAGER

SEWF 0007

FORM WD02 OHIO DEPARTMENT OF NATURAL RESOURCES
6/27/08 DIVISION OF WILDLIFEPage 1 of 1
+ 5 ENTRIES @ BOTTOM
OF PAGE.

BIRD SURVEY FORM

Project Name: SENECA W.F. Survey type: PASS
MIGRATION Date: 04-30-09Observer: HKO Start time: 705 (military time) Stop time: 715Point number: 05 Temp (°C): 13 Wind speed (m/s): 15 Cloud cover: 00 %
SEWF 0005

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
GBHE	30	NW	2	FLYBY
ETTI	30	NE	1	TI
FISP	50	E	1	TI
AMGO	10	W	2	X
DOWO	20	W	1	X
RWBL	20	NW	1	X
AMRO	30	NE	1	TI
CHSP	40	NW	1	TI
RWBL	30	NW	1	FLYOVER
RWBL	20	W	1	X
WBNU	50	E	1	TI
CAGO	15	SW	4	X FLYOVER
ETTI	50	SW	1	TI
UNPA#1	20	E	2	X
BHCO	30	E	1	X
COGR	30	SW	1	FLYOVER
RBWO	40	W	1	X
SOSP	20	W	1	TI
BLJA	35	N	1	X
AMGO	20	W	2	X
COYE	20	W	1	X

COMMON
YELLOWTHROAT

COGR	30	S	1	FLYOVER
NOCA	30	NW	2	TI
CHSP	40	S	1	TI
WBNU	40	W	1	TI
VEBP	50	SW		TI

SEWFPg069

BIRD SURVEY FORM

Project Name: SENECA WF Survey type: PASS. MIGRATION Date: 04-29-09

Observer: HKO Start time: 1030 (military time) Stop time: 1040

Point number: 17 Temp (°C): 13 Wind speed (m/s): 5^E Cloud cover 100 %

SEWFO17

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
CHSP	5	NW	1	T1
BHCO	10	NW	1	X
ETTI	50	W	1	T1
NOCA	50	SW	1	T1
SOSP	30	NNE	1	T1
TUVU	20	E	1	X SOARING
EAME	60	S	1	T1
BLJA	50	NW	1	X
BHCO	15	SW	1	X
AMRO	60	W	1	T1
BTNW	40	SW	1	X
AMRO	30	WSW	1	CF
RWBL	40	SW	1	FLYOVER
BCCH	50	W	1	X
AMRO	75	NW	1	SPATTER
AMGO	50	E	2	FLYOVER
IDWD	100	NW	1	X
AMRO	50	NE	1	T1
CHSP	75	NW	1	T1
AMRO	75	N	1	T1
AMGO	30	SE	6	X FLYOVERS

BLACK-THROATED
GREEN WARBLER

[illegible]

SEWFP071

BIRD SURVEY FORM

Project Name: SENECA W F Survey type: PASS MIGRATION Date: 04-29-09

Observer: HKO Start time: 812 (military time) Stop time: 822

Point number: 11 Temp (°C): 11 Wind speed (m/s): 3 Cloud cover 100%

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
FISP	60	SW	1	T7
NOCA	50	S	1	T1
CHSP	60	S	1	T1
SOSP	80	S	1	T1
RBWD	70	SE	1	T1 COUNTERCALLING
RBWD	50	NE	1	T1
YWAR	60	SW	1	T1
RWBL		W	16	ON TERRITORIES MALES. INFIELD
EUST	40	SW	2	X
AMCR	100	S	1	X
SOSP	10	SE	1	T1
BHCD	10	N	1	X
SOSP	30	N	1	T1
TUVU	5	S	1	X FLYOVER
EUST	10	E	1	T1
AMCR	5	E	1	FLYOVER
EUST	50	NW	3	X
HOWR	25	NE	1	X
FISP	30	S	1	COUNTERSINGING
EAME	35	W	1	T7
AMBO	30	S	1	FLYOVER

SEE PAGE 2

YELLOW
WREBLER

Point number: 11 Temp (°C): — Wind speed (m/s): — Cloud cover % —

[illegible]

SEWFP072

BIRD SURVEY FORM

Project Name: SENECA WF Survey type: PASS. MIGRATION Date: 04-29-09Observer: HKO Start time: 915 (military time) Stop time: 925Point number: 09 Temp (°C): 13 Wind speed (m/s): 4 Cloud cover 100%

SEWFP072

Species	Estimated distance (m)	Direction (bearing)	Flyover # in flock	Behavior/notes
TUVU	5	SE	3	SOARING
BRTH	20	SW	1	T1
EUST	15	NE	3	T7
WBNU	0	N	1	X
YUWAR	30	S	1	T1
YWAR	25	SE	1	T1
AMGO	30	SE	6	X CALLING
RWBL	10	SW	1	T7
RWBL	20	SE	1	T7
RWBL	15	S	3	T7
AMRO	40	SW	1	T1
RHWD	40	N	1	T7
RHWD	60	NW	1	T7
MODD	120	NE	1	X
SOSP	20	S	1	T1
NOFL	40	SW	1	X
NOFL	50	NE	1	X
PIWD	0	N	1	X FLYOVER
SOSP	50	SE	1	T1
EUST	50	S	2	X
EUST	40	NW	2	T7

YELLOW
WARBLER

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

7/16/2018 11:26:52 AM

in

Case No(s). 18-0488-EL-BGN

Summary: Application Appendix N Part 4 electronically filed by Teresa Orahood on behalf of Dylan F. Borchers