# MANAGEMENT OF COLONIAL WATERBIRDS AT TOMMY THOMPSON PARK



### CORMORANT ADVISORY GROUP MEETING #6

Tuesday December 15, 2009 6:30 p.m. to 9:00 p.m.

#### **AGENDA**

6:35pm	Welcome and Introductions Review of Previous Meetings	Ralph Toninger
7:00pm	Review 2009 colonial waterbird data and 2009 cormorant management strategy	Ralph Toninger
7:40pm	Update on York University studies	Gail Fraser
8:00pm	Next Steps  • Completion of the 2009 Cormorant Management Strategy  • Moving into 2010	Ralph Toninger
8:55pm	Wrap-up and next meeting	Ralph Toninger

### PROCESS - DOUBLE-CRESTED **CORMORANTS AT TOMMY** THOMPSON PARK

- November 2007: TRCA embarked on a process to involve stakeholders and public in assessing need for management of cormorant populations
- **Goal:** to achieve a balance between the continued existence of a healthy, thriving cormorant colony and the other ecological, educational, scientific and recreational values of Tommy Thompson Park

#### **GOAL**

To achieve a balance between the continued existence of a healthy, thriving cormorant colony and the other ecological, educational, scientific and recreational values of Tommy Thompson Park

#### **OBJECTIVES**

- Increase public knowledge, awareness, and appreciation of colonial waterbirds
- Deter cormorant expansion to Peninsula D
- Limit further loss of tree canopy on Peninsulas A, B and C
- Continue research on colonial waterbirds in an urban wilderness context

### **Public Consultation Summary 2008**

Advisory Group Meeting #1	January 24	<ul> <li>Values and interests of TTP</li> <li>Conditions and concerns of DCCO colony</li> <li>Need for management</li> <li>Strategies to address concerns</li> </ul>
Advisory Group Meeting #2	February 19	Evaluate management options     Propose alternative approaches
Cormorant Webpage launched	March 3	<ul> <li>Includes background materials, Advisory Group meeting notes and presentations, Public Meeting workbook and meeting notes, relevant links</li> </ul>
Public Meeting	April 3	<ul> <li>Advertised in Toronto Star, The Mirror, TRCA website, TTP information board, TRCA distribution lists, some Advisory Group member websites</li> <li>Canada Newswire press release, Global TV coverage</li> <li>Presentations, facilitated round table discussion, individual workbooks for commenting</li> </ul>
Advisory Group Meeting #3	April 23	Review public response     Discuss 2008 strategy
TTP Spring Bird Festival	May 10	<ul><li>Guided tours of cormorant colony</li><li>Public survey on TTP cormorants</li></ul>
<b>Authority Board</b>	May 23	Present 2008 strategy for Authority action
Advisory Group Meeting #4	Dec10	•Review 2008 strategy and preliminary research results

### **Public Consultation Summary 2009**

Advisory Group Meeting #5	February 4	•Develop the 2009 Strategy
TRCA Authority Meeting	March 27	Present the 2009 Strategy for TRCA Authority action
TTP Spring Bird Festival	May 23	<ul><li>Guided tours of cormorant colony</li><li>Public survey on TTP cormorants</li></ul>
Advisory Group Meeting #6	December 15	<ul> <li>Review the 2009 population data and monitoring program</li> <li>Review 2009 strategy and preliminary research results</li> <li>Being discussions on a strategic approach for 2010</li> </ul>

## Strategic Approach 2009

	Peninsula A	Peninsula B	Peninsula C	Peninsula D
Pre-nesting Deterrents		*	*	*
Post-Breeding Deterrents			*	*
Enhanced Ground Nesting	*	*		
Restoration	*	*	*	*
Experimental Egg Oiling Follow Up		*		

#### Colonial Waterbirds of Tommy Thompson Park, 2009



Double-crested Cormorant 7564 nests



Black-crowned Night-Heron <50 nests



Herring Gull <20 nests



Common Tern 354 nests



Great Egret 7 nests



Ring-billed Gull 30,000 nests

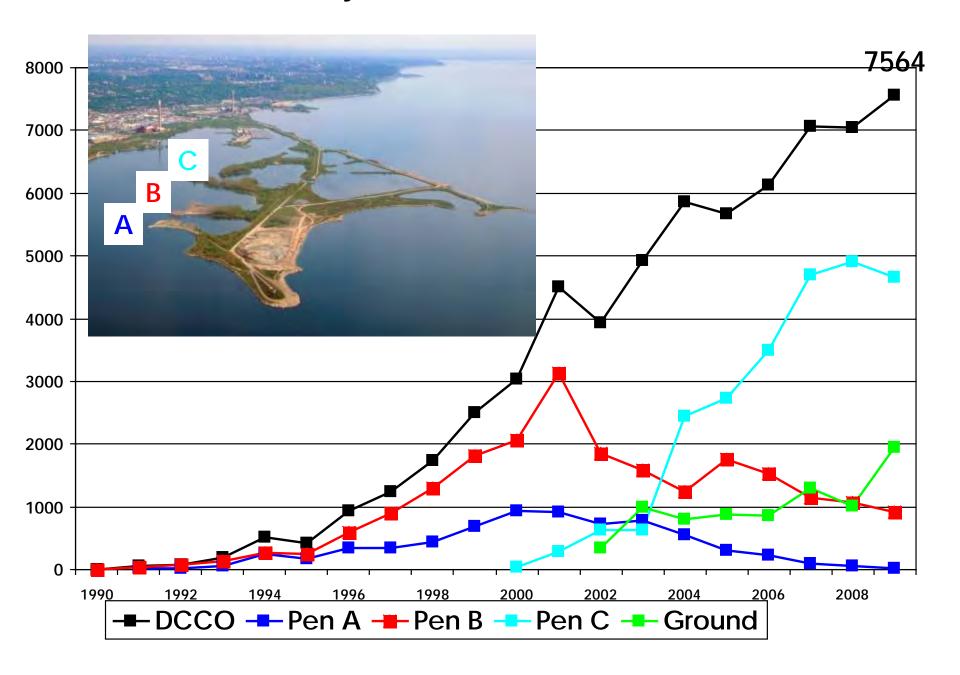


#### DCCO Nest Numbers 1998 to 2009

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
А	436	695	933	909	730	779	557	311	228	101	49	22
В	1307	1814	2071	3048	1844	1582	1241	1763	1535	1072	1050	917
B ground					344	990*	809	872	868	1302	1009	1957
С	0	0	30	282	625	633	2439	2728	3494	4584	4906	4668
Total	1743	2509	3034	4237	3543	3942	5046	5674	6125	7059	6717	7564

Peninsula A =42, and Peninsula B =948

#### **TTP Nests Numbers by Peninsula**



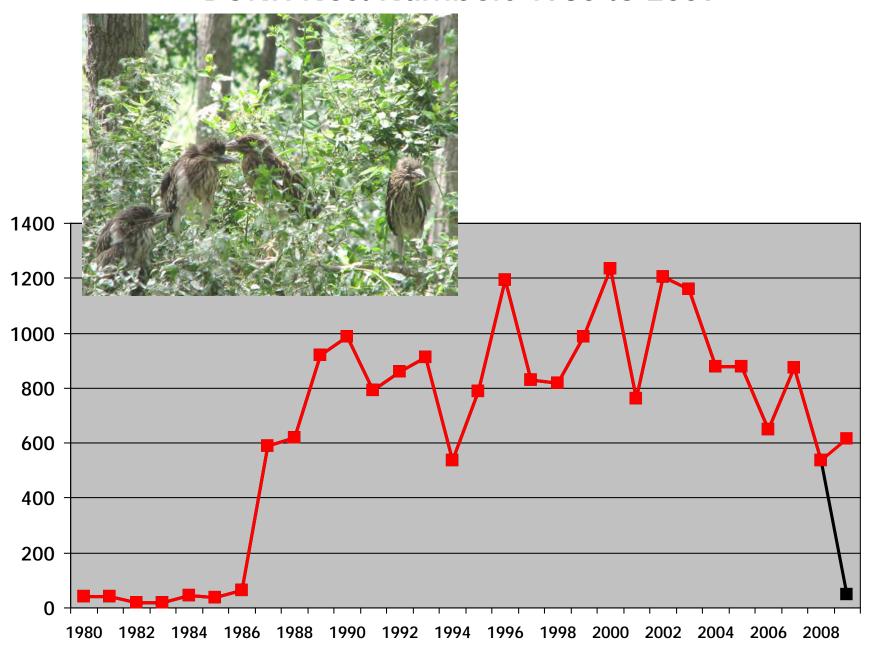
### **BCNH** numbers by Peninsula

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Α	0	0	0	0	0	0	0	0	0	0	0	0
В	15	0	0	0	163	255	278	270	145	146	81	38
С	803	988	1235	762	1040	904	601	610	504	730	455	579
Total	818	988	1235	762	1203	1159	879	880	649	876	536	617

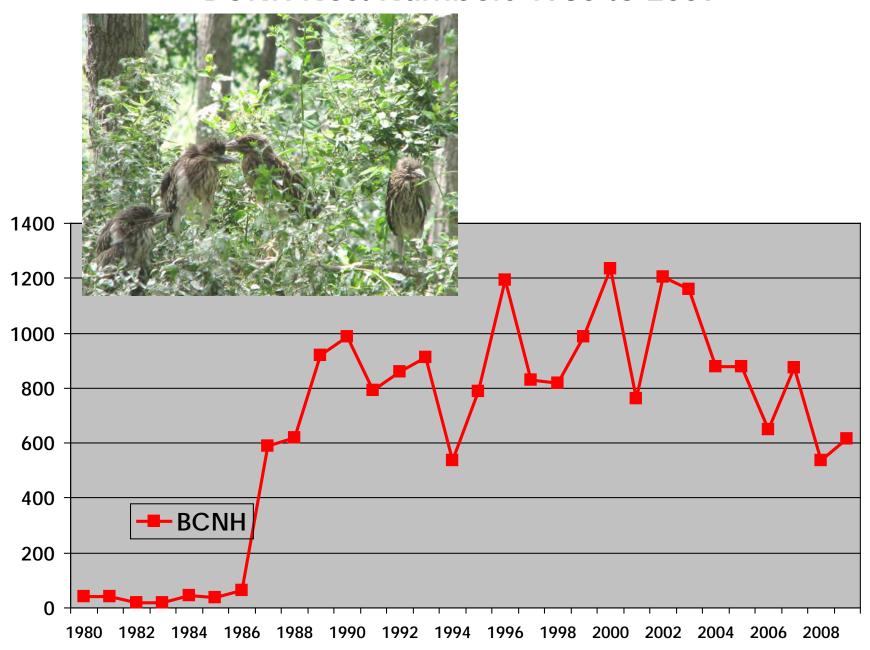
Note: Peak count conducted on May 27- June 2

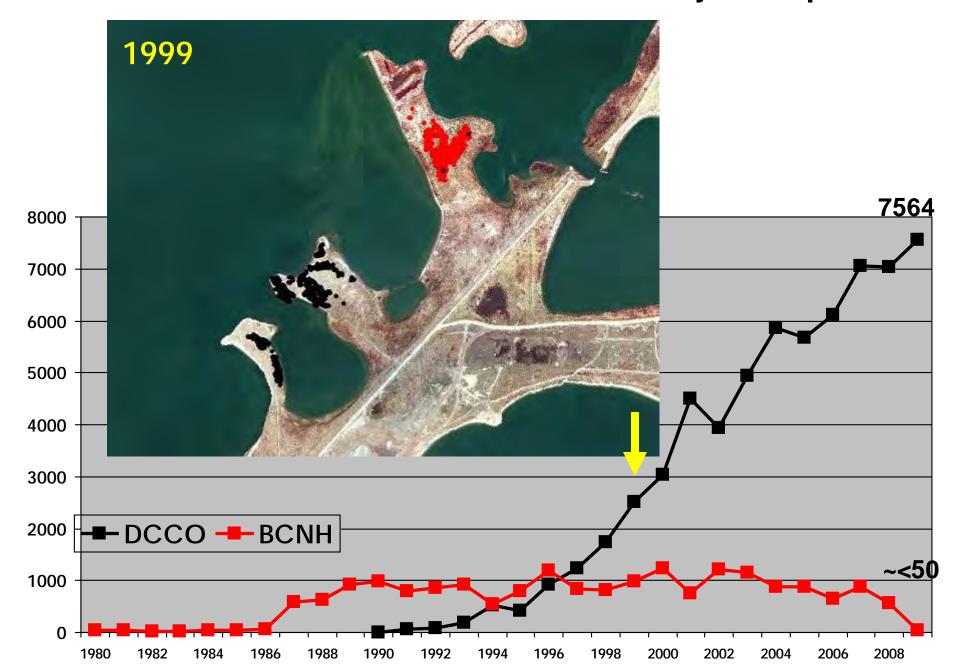
Large scale abandonment occurred on between June 15-30

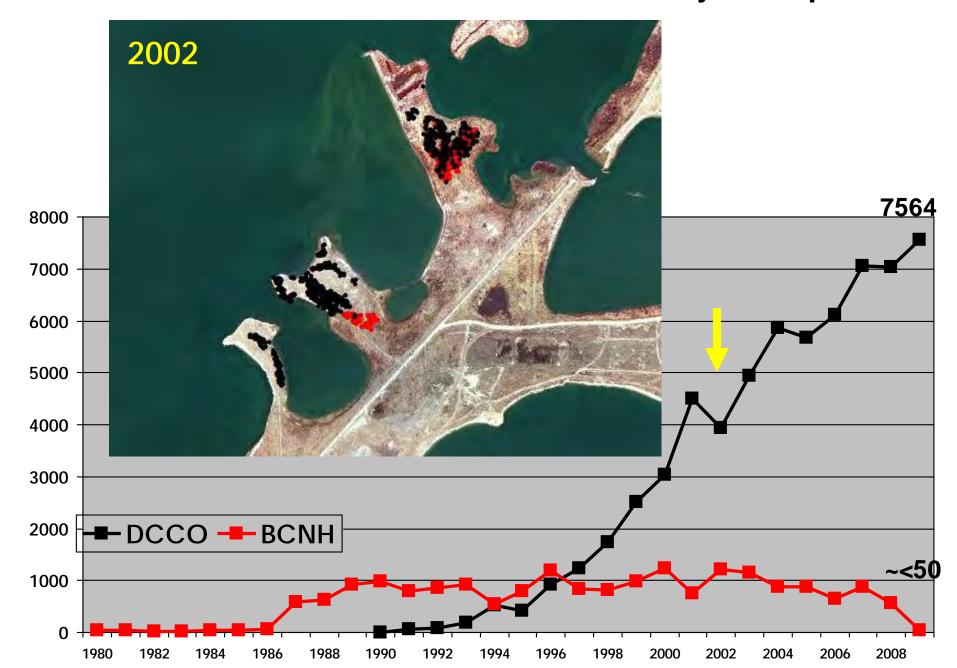
#### BCNH Nest Numbers 1980 to 2009

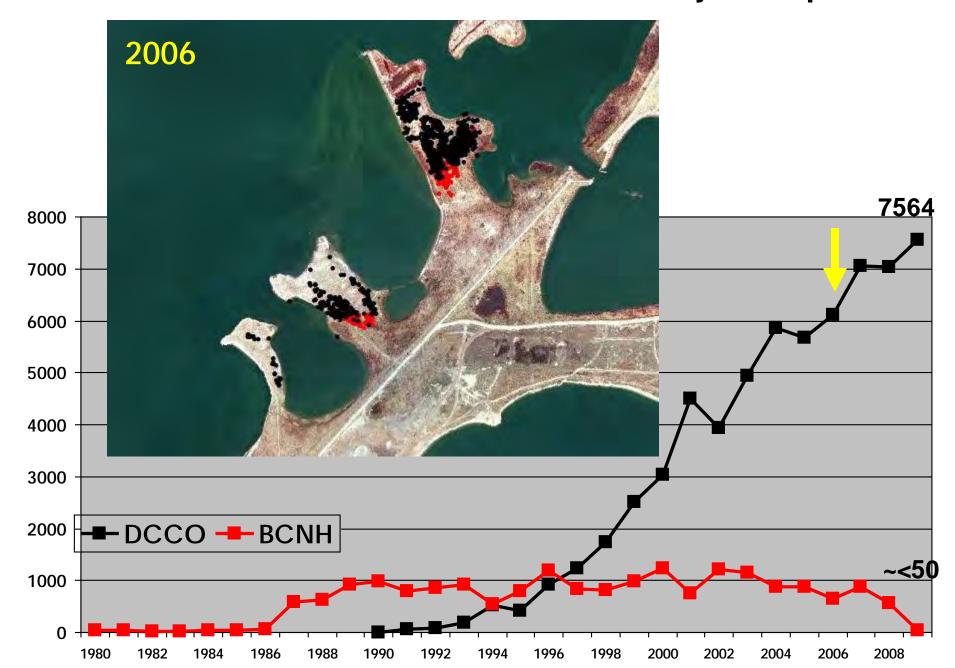


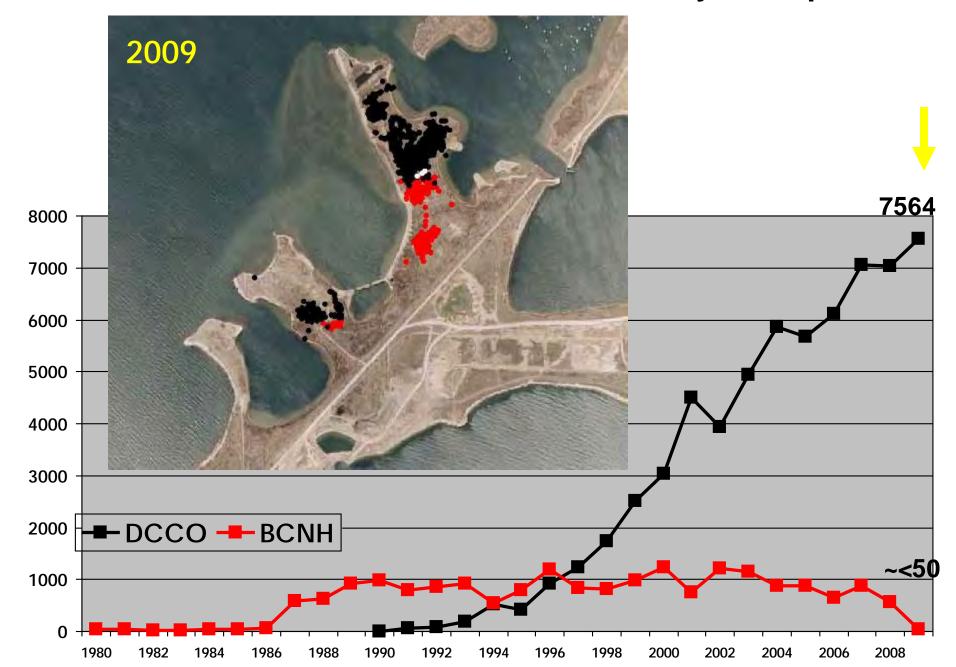
#### BCNH Nest Numbers 1980 to 2009











#### The Change in Tree Health between 2006 and 2009



- Live Trees
- Tree in Decline
- Dead or Dying Trees

### Proposed Strategic Approach 2009

	Peninsula A	Peninsula B	Peninsula C	Peninsula D
Pre-Nesting Deterrents		*	*	*
Post-Breeding Deterrents			*	*
Enhanced Ground Nesting	*	*		
Restoration	*	*	*	*
Experimental Egg Oiling (follow-up on nest attendance only)		*		

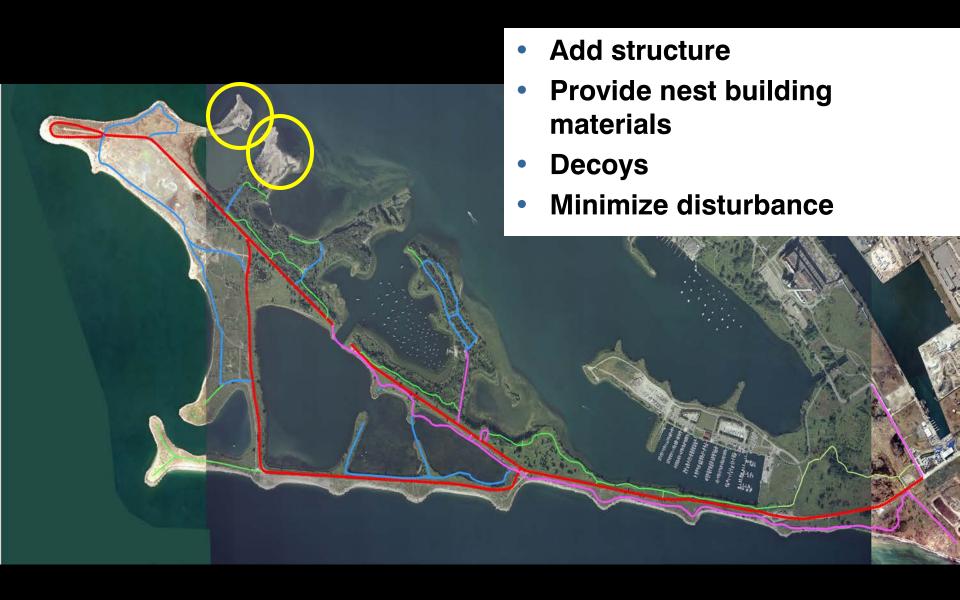
### **Cormorant Conservation Zones**

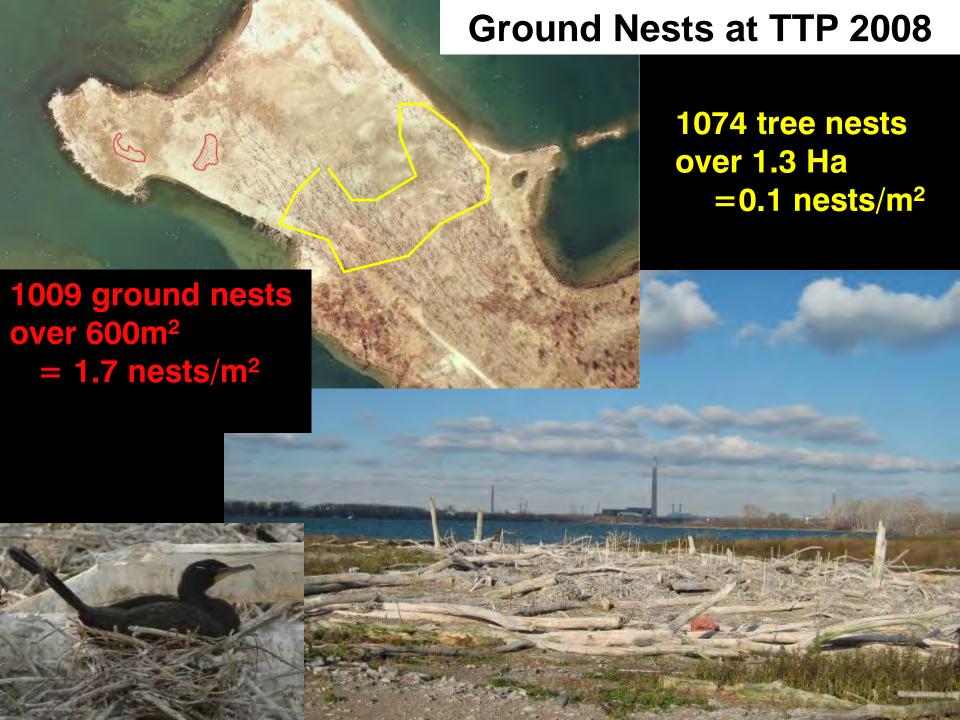




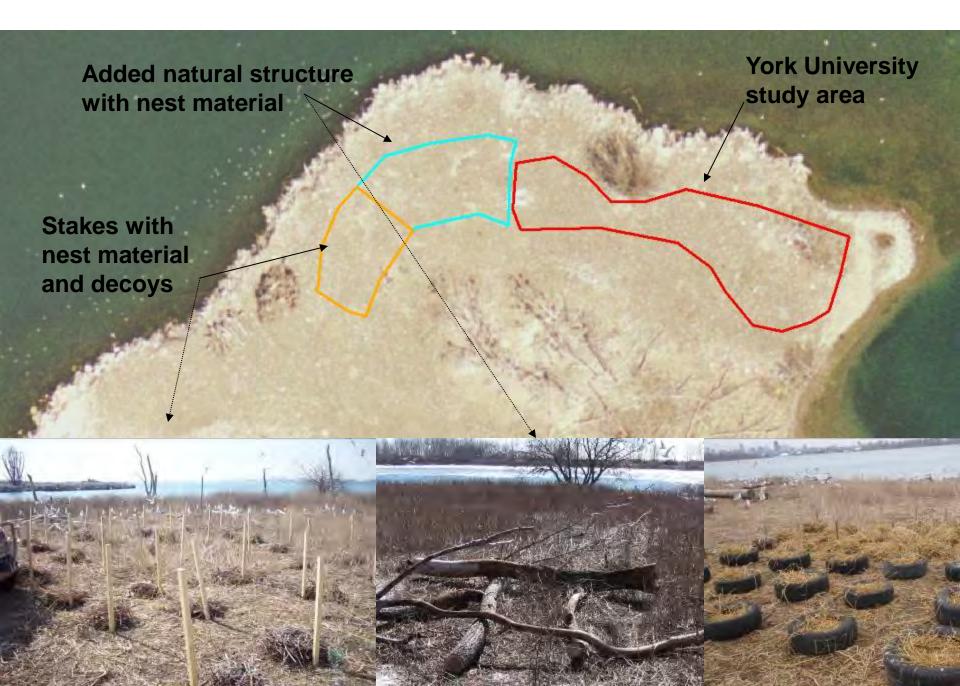


### **Enhanced Ground Nesting**





#### PENINSULA A - 2009 GROUND NEST ENHANCEMENTS



### Peninsula B Ground Nest Colony







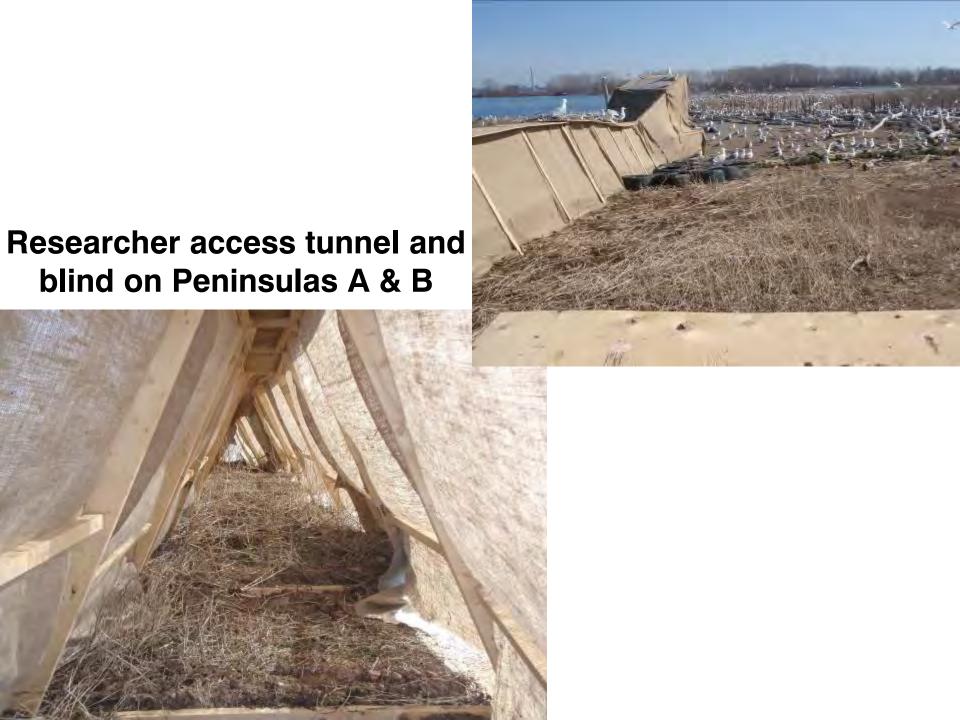














#### Peninsula A: stakes and tires with nesting material



### Peninsula A: ground nest enhancements



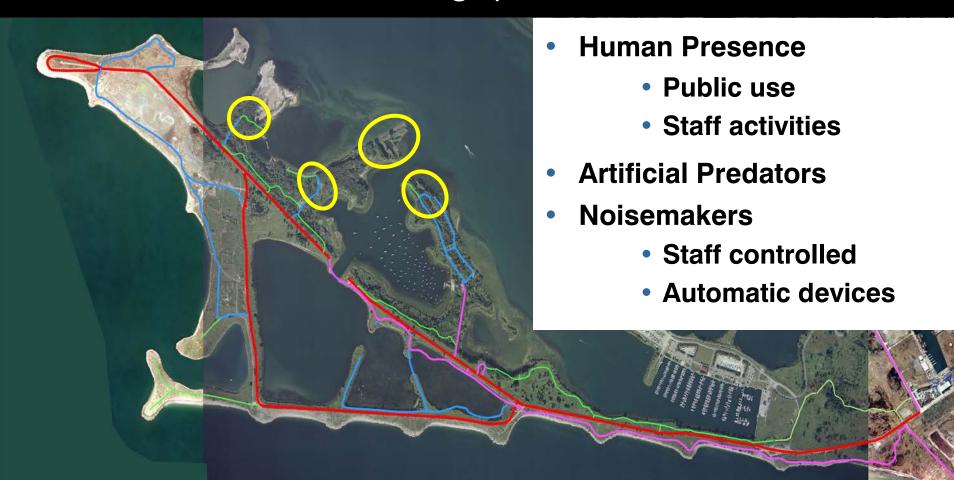






## **Pre-Nesting Deterrents**

- Least intrusive methods favoured
- Techniques will escalate if necessary
- Caution around other nesting species



#### Pre-Nesting Deterrents - 2009



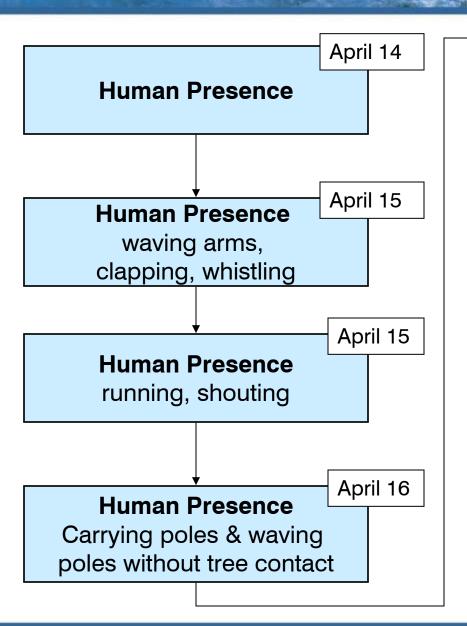
# Monitoring Locations

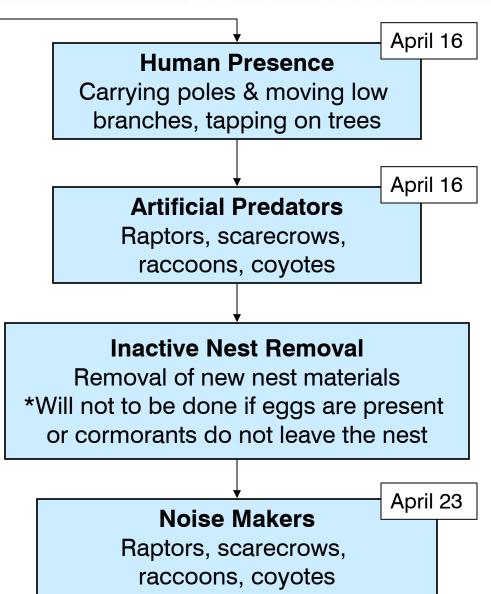
- 74 person hours spring 2009
- 28 minute average session
  - pre-deterrent
  - active-deterrent
  - post-deterrent





## **Deterrent Escalation**







#### Removal of inactive nest materials



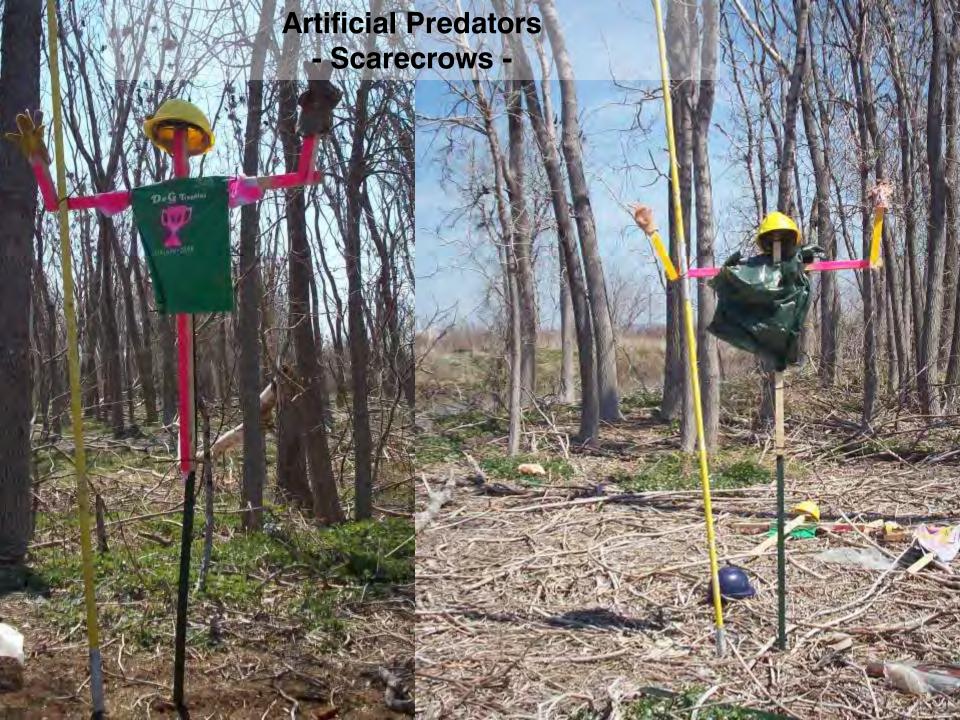


**Artificial Predators** - Hawk Kite -

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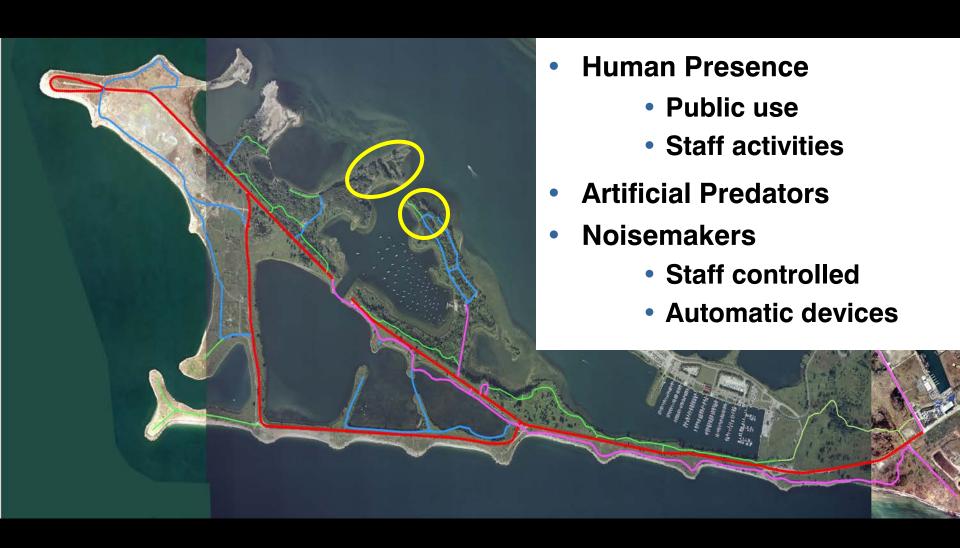


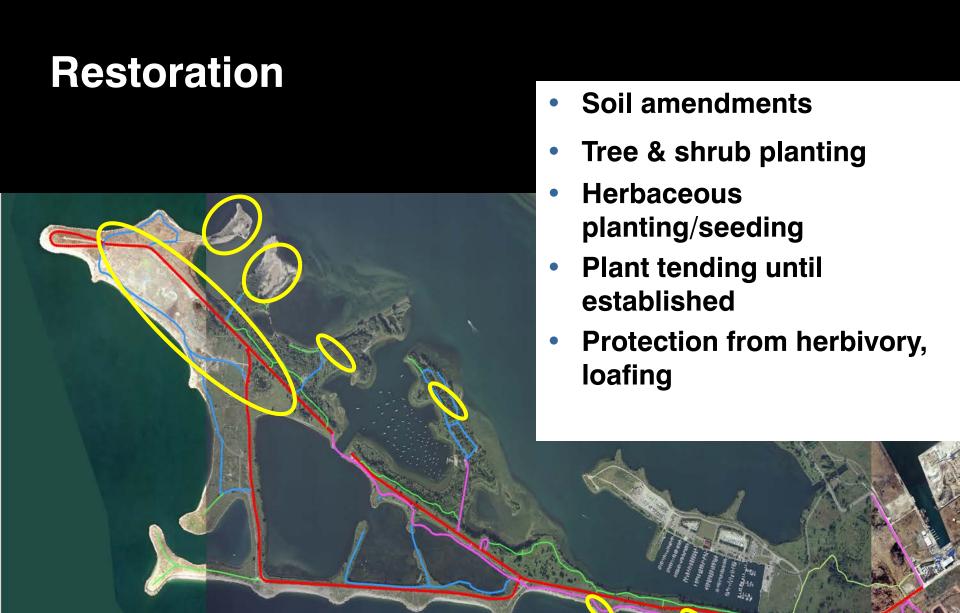




#### **Post-Breeding Deterrents**

- Least intrusive methods favoured
- Techniques will escalate if necessary





## 2009 Season Summary

- Prevented Expansion onto Peninsula D
- Ground nests increased by 94% from 2008 (from 14% to 26%) No nesting on Peninsula A **Prospecting?**
- Number of trees used increase however tree nests decreased
- Large scale abandonment by BCNH





# Where are We Going

**Enhanced Ground Nesting**Predator exclusion

**Address BCNH Abandonment** 

**Escalate Nesting Deterrents** 

**Active Nest Removal** 











