The North Shore Marine Transfer Station:
A Case Study

Presented to:
The 2011 North America Bird Strike Conference


1,000 Ft.
Fence - 21' AMSL
LOC - 19' AMSL
Proposed Transfer Station High Point - 100.06' AMSL
Existing Transfer Station - 69' AMSL
Cement Stack - 108' AMSL
1,750 Ft.
2,500 Ft.
Building - 97' AMSL
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Washburn Report

Table 3. Mean Number of Birds Using Trash-Transfer Facilties and Control Sites

Building Type	All Birds[a] Mean ±SE	Gulls[b, c] Mean ±SE	European Starlings Mean ±SE
Control	22.1 ±3.2 A[d]	1.2 ±0.2 A	0.6 ±0.1 A
Completely open	89.0 ±6.7 C	26.9 ±3.5 B	46.3 ±5.3 D
Three-sided, open	58.0 ±4.5 B	37.7 ±4.6 C	9.5 ±1.7 B
Three-sided, bays	85.1 ±5.1 C	60.2 ±5.7 D	26.1 ±2.4 C
Semi-enclosed	120.0 ±13.1 C	69.7 ±11.4 D	12.7 ±1.1 B
Fully enclosed[e]	85.2 ±8.3 C	61.1 ±9.4 D	20.3 ±4.3 C

[a] Consists of the total number of birds of all species.

[b] Consists of the total number of gulls from 8 species.

[c] For analyses of gulls, trash-transfer stations in Arizona and Missouri were excluded as gulls were not observed at facilities in these states.

[d] Means within the same column with the same letter are not different ($P > 0.05$) according to a Kruskal-Wallis test.

[e] One fully enclosed trash-transfer facility was excluded from these analyses due to its overwhelming influence on the data.

SE = Standard error of the mean.

RISK MATRIX

	Alternative 1[a] No facility (present situation)	Alternative 2[b] Proposed facility	Alternative 3[c] Proposed facility with modifications and wildlife hazard management plan
Hazardous Bird Activity ↑	*High*	*High*	*Low*
	Medium	*Medium*	*Low*
	Low	*Low*	*Low*
	Risk Levels		

[a] Alternative 1: present situation (no MTS facility)

[b] Alternative 2: MTS as proposed under the Part 360 application

[c] Alternative 3: MTS with (1) changes to building design and operational procedures and (2) the implementation of a wildlife hazard management plan