



Jacobson Satchell

CONSULTANTS

May 28, 2009

Ms. Lori Pickette
Lakewood Villages (SID 180)
48th Street and Hwy. 370
Papillion, Nebraska 68133

Re: Lakewood Villages Wetland/Pond Evaluation

Dear Ms. Pickette:

Jacobson Satchell Consultants, Inc., (JSC) was retained by the SID 180 to assess the quality of a wetland/pond area located west of Timberridge Road within Lakewood Villages residential development, located near 48th Street and Highway 370, Bellevue, Nebraska. JSC conducted a qualitative assessment based on site observations completed on May 27, 2009.

Area Classification/Description

The wetland/pond area is functioning as a shallow water pond with emergent, submergent, and floating vegetation. The emergent vegetation coverage is less than 30%. Using the Cowardin classification system this area is classified a Palustrine, Unconsolidated Bottom, Permanently Flooded wetland (PUBH). As such, it is a thriving ecosystem in and of itself.

Water depth was three feet deep at one location on east end with a gradual slope to the waters edge. Many dead branches, logs and trees were observed within pool area. Water color was a grayish/brown with at least 2 feet of clarity. The water surface was approximately 2 feet higher than normal due to a beaver dam across the apron inlet of the concrete box culvert under Timberridge Road.

Flora/Fauna

Duckweed (*Lemna* sp.) was the dominant floating vegetation on the surface, covering at least 50% of water surface. Coontail (*Ceratophyllum demersum*), a submerged plant, was observed through out pond. Reed canary grass (*Phalaris arundinacea*), rice cutgrass (*Leersia oryzoides*) and cattail (*Typha latifolia*) are all emergent plants that were observed. Wildlife observed, included numerous birds (common grackle, cardinal, robin, tree swallow, great blue heron, mallard duck and ducklings, king fisher), amphibians (frogs and tadpoles), turtle and fish. Mature trees lined the banks of this pond and shaded portions of the pond.

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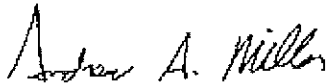
Conclusion

Based on the diversity of wildlife and vegetation species within and around this pond it is JSC's opinion this pond area is healthy and decent in quality, and no intervention is deemed necessary. Furthermore, tree lined, open water areas with floating, submerged and emergent vegetation are not very common within urban ecosystems making this a valuable resource for this area.

We appreciate the opportunity to provide you with this information and if we can be of any other assistance please contact me at (402) 697-0701.

Sincerely,

JACOBSON SATCHELL CONSULTANTS, INC.

A handwritten signature in cursive script that reads "Andrew A. Miller".

Andrew A. Miller, PWS
Professional Wetland Scientist

AAM/ddd