RSV ENGINEERING, INC.
Engineers, Planners, Surveyors
Environmental Scientists

July 12, 2000

Mr. James Knowles
U.S Army Corps of Engineers
1617 E. Racine Avenue, Room 101
Waukesha, WI 53186

RE: Wetland Delineation Report of Shorewood Hills 3rd Addition
Lake Mills, Wisconsin

Mr. Knowles:

At the request of Mr. Scott Halvorsen, RSV Engineering, Inc. (RSV) has performed a wetland determination/delineation at the proposed Shorewood Hills 3rd Addition property. The proposed subdivision addition is located in part of the NE ¼ of Section 10, T7N, R13E, in the Township of Lake Mills, Jefferson County, Wisconsin. The property contains one wetland area. The wetland area is designated as Wetlands on the attached drawing.

The wetland area on the property is a portion of a larger wetland area, which is associated with the Rock Lake watershed. This wetland area is characterized as a hardwood swamp, which is seasonally inundated.

Attached to this letter are copies of the Routine Wetland Determination Data Forms for each wetland, and copies of the Jefferson County Soil Survey, Jefferson County Wetland Inventory map, and a plat of survey indicating the wetland flag locations. Mr. Stephen Hjort of RSV delineated the wetlands on June 5, 2000. The wetlands were determined and delineated using methodologies included in the 1987 U.S. Army Corps of Engineers Wetland Delineation Manual.

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If you have any questions or comments regarding the determination or delineation of the wetlands, please contact the undersigned at (920) 674-3411.

Respectfully submitted,

RSV ENGINEERING, INC.

Stephen J. Hjort

Senior Biologist

c: Mr. Scott Halvorsen
Mr. Dan Hunt, WDNR Horicon Office
Mr. James Woodman, Woodman & Associates

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 USACOE Wetlands Delineation Manual)

Project/Site: Shorewood Hills 3rd Addition Applicant/Owner: Scott Halvorsen Investigator: Stephen J. Hjort	Date: 6/5/00 County: Jefferson State: WI
Do Normal Circumstances exist on the site? Yes ~~No~~ Is the site significantly disturbed (Atypical situation)? ~~Yes~~ No Is the area a potential Problem Area? ~~Yes~~ No (If needed, explain on reverse.)	Community ID: Upland Transect ID: Plot ID: UP-1

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Prunus serotina	T	FACU	9.		
2. Quercus alba	T	FACU	10.		
3. Carya ovata	T	FACU	11.		
4. Acer negundo	T	FACW-	12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-) 75%

Remarks: 75% of dominannt species observed were ≤ FAC.

HYDROLOGY

Recorded Data (Describe in Remarks):
- Stream, Lake, or Tide Gauge
- Aerial Photographs
- Other
- X No Recorded Data Available

Field Observations:

Depth of Surface Water:		(in.)
Depth of Free Water in Pit:	> 24	(in.)
Depth to Saturated Soil:	> 24	(in.)

Wetland Hydrology Indicators:
Primary Indicators:
- Inundated
- Saturated in Upper 12 Inches
- Drift Lines
- Water Marks
- Sediment Deposits
- Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- Oxidized Root Channels in Upper 12"
- Water Stained Leaves
- Local Soil Survey Data
- FAC Neutral Test
- Other (Explain in Remarks)

Remarks: Wetland hydrology indicators were not observed during field inspection.

SOILS

Map Unit Name
(Series and Phase): Matherton Silt Loam

Drainage Class: Somewhat Poorly Drained
Field Observations
Confirm Mapped Type? Yes ~~No~~

Taxonomy (Subgroup): Udollic Ochraqualf

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-10	A	10YR 3/2		None	Silt Loam
10-24	B	10YR 5/3		None	Clay Loam

Hydric Soil Indicators:

- Histosol
- Histic Epipedon
- Sulfidic Odor
- Aquic Moisture Regime
- Reducing Conditions
- Gleyed or Low-Chroma Colors
- Concretions
- High Organic Content in Surface Layer in Sandy Soils
- Organic Streaking in Sandy Soils
- Listed on Local Hydric Soils List
- Listed on National Hydric Soils List
- Other (Explain in Remarks)

Remarks: Hydric soil indicators were not observed during field inspection

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	~~Yes~~	No
Wetland Hydrology Present?	~~Yes~~	No
Hydric Soils Present?	~~Yes~~	No

Is this Sampling Point Within a Wetland ~~Yes~~ No

Remarks: Hydrophytic vegetation, wetland hydrology and hydric soils were not observed during field inspection.

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 USACOE Wetlands Delineation Manual)

Project/Site: Shorewood Hills 3rd Addition Applicant/Owner: Scott Halvorsen Investigator: Stephen J. Hjort	Date: 6/5/00 County: Jefferson State: WI
Do Normal Circumstances exist on the site? Yes ~~No~~ Is the site significantly disturbed (Atypical situation)? ~~Yes~~ No Is the area a potential Problem Area? ~~Yes~~ No (If needed, explain on reverse.)	Community ID: Wetland Transect ID: Plot ID: WET-1

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Impatiens capensis	F	FACW	9.		
2. Ulmus americana	T	FACW-	10.		
3. Acer negundo	T	FACW-	11.		
4. Fraxinus pennsylvanica	T	FACW	12.		
5. Urtica dioica	F	FAC+	13.		
6. Rubus strigosus	F	FACW-	14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: 100% of dominant species observed were > FAC.

HYDROLOGY

Recorded Data (Describe in Remarks):
- Stream, Lake, or Tide Gauge
- Aerial Photographs
- Other
- No Recorded Data Available

Field Observations:

Depth of Surface Water:		(in.)
Depth of Free Water in Pit:	11	(in.)
Depth to Saturated Soil:	5	(in.)

Wetland Hydrology Indicators:

Primary Indicators:
- Inundated
- X Saturated in Upper 12 Inches
- Drift Lines
- Water Marks
- X Sediment Deposits
- Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- X Oxidized Root Channels in Upper 12"
- Water Stained Leaves
- X Local Soil Survey Data
- X FAC Neutral Test
- Other (Explain in Remarks)

Remarks: Wetland hydrology indicated during field inspection.

SOILS

Map Unit Name
(Series and Phase): Houghton Muck

Drainage Class: Very Poorly Drained
Field Observations
Confirm Mapped Type? Yes No

Taxonomy (Subgroup): Typic Medisaprists

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-12	Oa	N2 510		None	Muck
12-24	Ob	10YR 2/1		None	Muck

Hydric Soil Indicators:

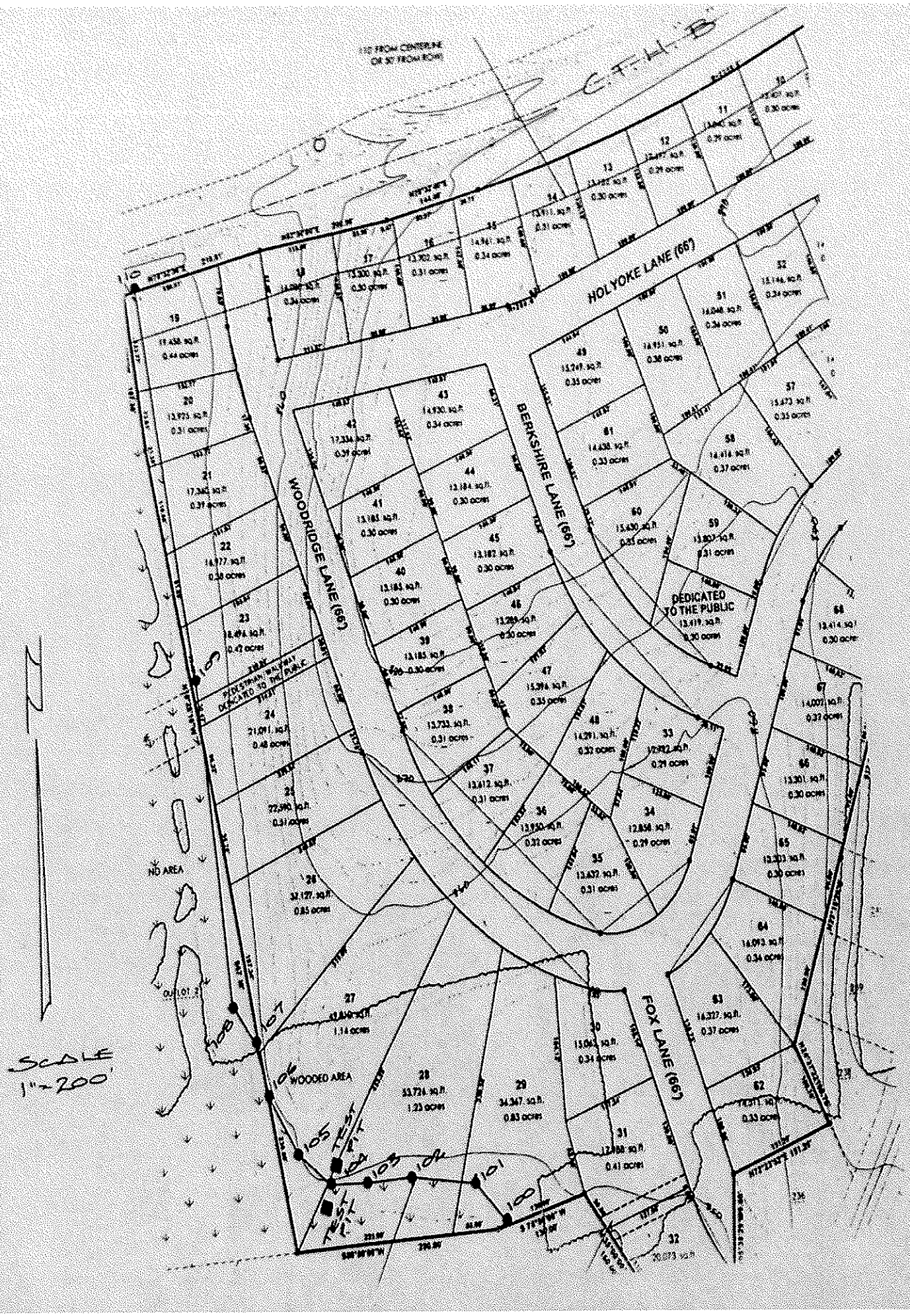
- X Histosol
- Histic Epipedon
- X Sulfidic Odor
- X Aquic Moisture Regime
- X Reducing Conditions
- X Gleyed or Low-Chroma Colors
- Concretions
- High Organic Content in Surface Layer in Sandy Soils
- Organic Streaking in Sandy Soils
- X Listed on Local Hydric Soils List
- X Listed on National Hydric Soils List
- Other (Explain in Remarks)

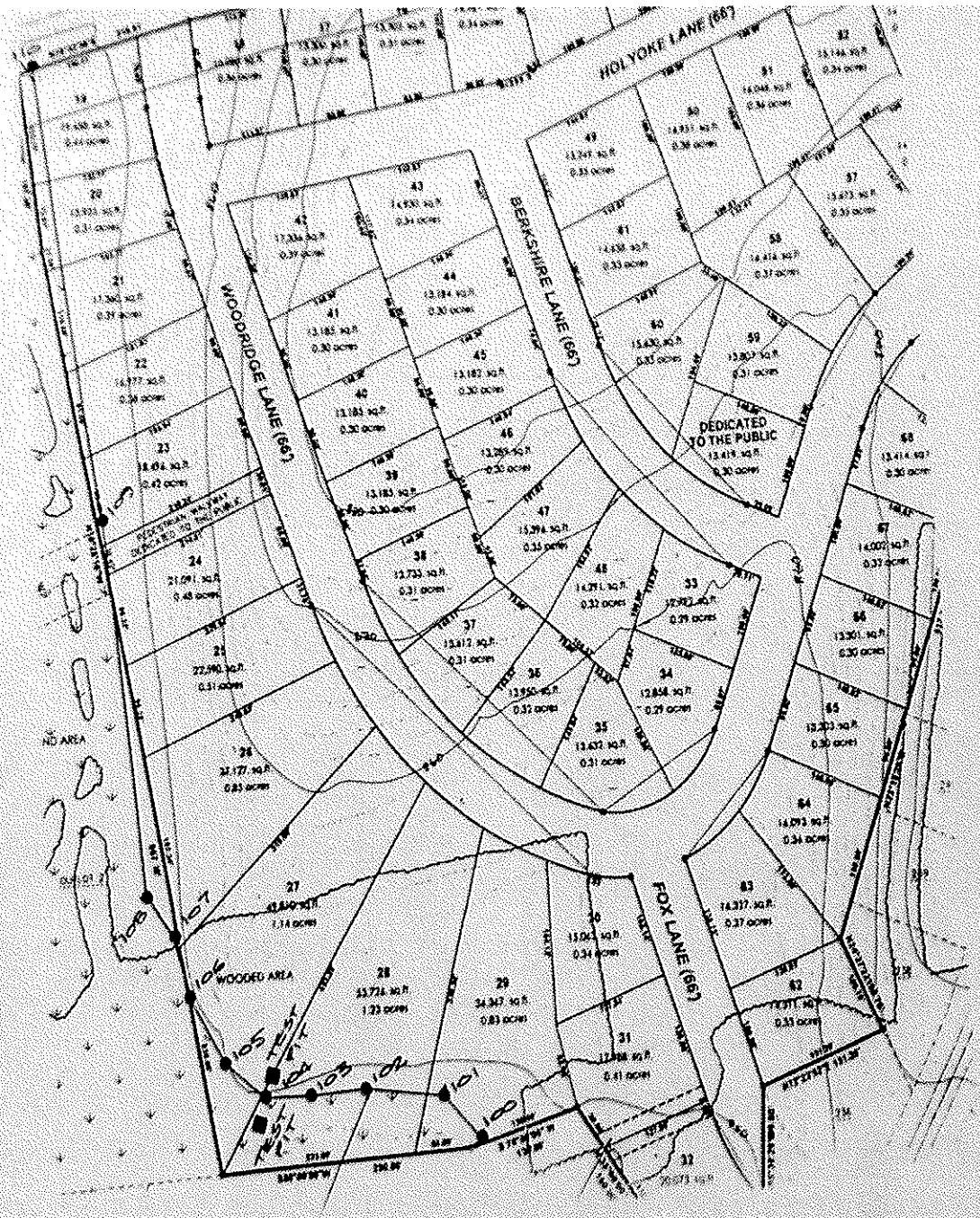
Remarks: Hydric soils identified during field inspection.

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes	No	Is this Sampling Point Within a Wetland	Yes No
Wetland Hydrology Present?	Yes	No		
Hydric Soils Present?	Yes	No		

Remarks: Hydrophytic vegetation, wetland hydrology and hydric soils were observed during field inspection.


HOLYOKE LANE (66')
BERKSHIRE LANE (66')
WOODRIDGE LANE (66')
FOX LANE (66')
DEDICATED TO THE PUBLIC
PEDESTRIAN WALKWAY DEDICATED TO THE PUBLIC
NO AREA
WOODED AREA
TEST PIT
SCALE 1"=200'



SCALE 1"=200'

● - INDICATES WETLAND FLAGS LOCATED BY WOODMAN & ASSOC. S.C. ON 6-19-00

SHOREWOOD HILLS NORTH
PART OF THE SE¼-NW¼ & NE¼-SW¼ SEC. 10 T7N, R13E