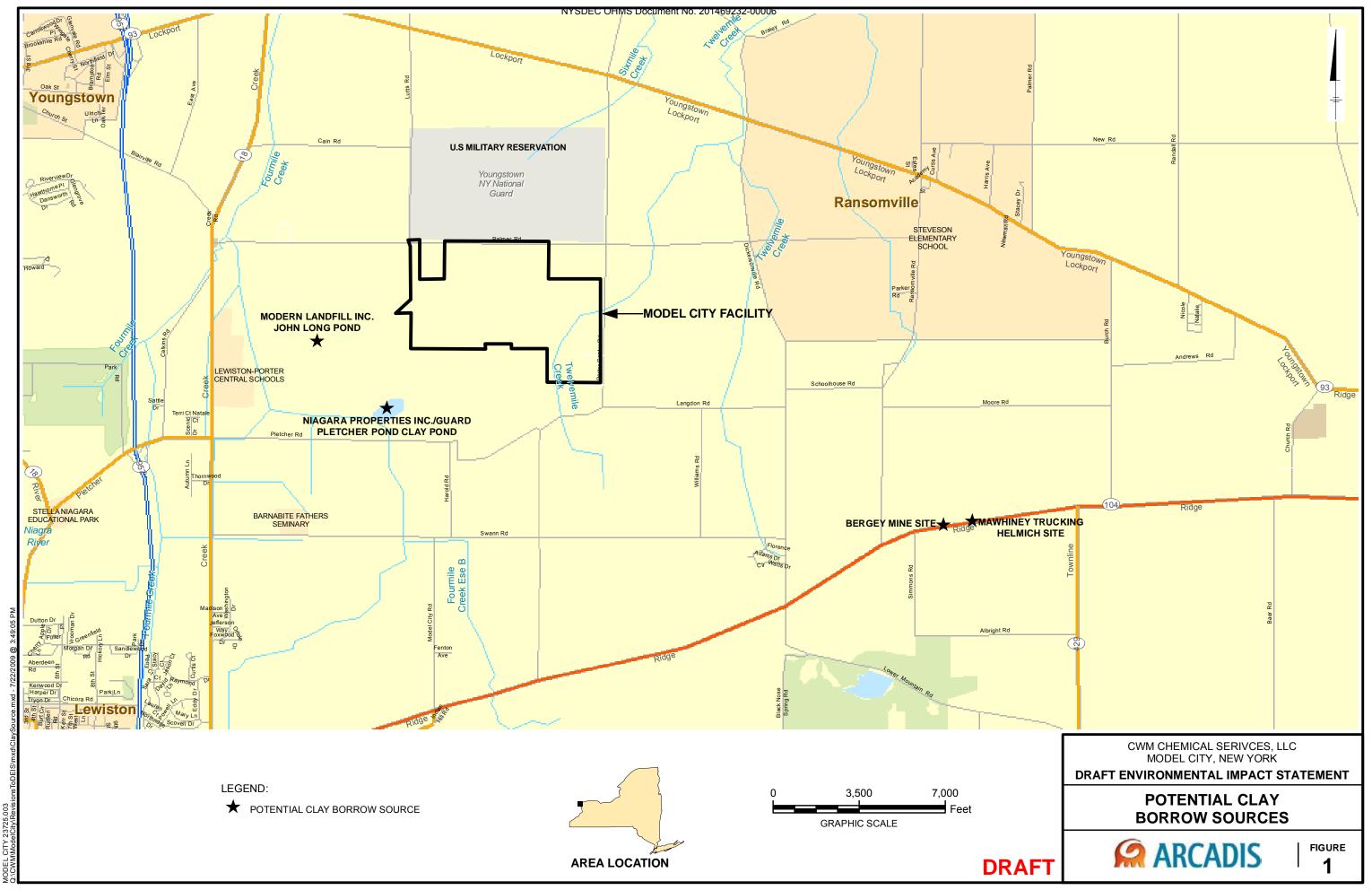
ARCADIS

Appendix C

Location Map of Potential Clay Resources



ROCH DIV/GROUP: 40 DB: LD: EAL PIC: WP PM: TM: GNG TR:

ARCADIS

Appendix D

Wetland Delineation Report



November 18, 2003

Mr. Gary McDannell U.S. Army Corps of Engineers 1776 Niagara Street Buffalo, New York 14207-3199 **CWM CHEMICAL SERVICES, LLC**

1550 Balmer Road P.O. Box 200 Model City, NY 14107 (716) 754-8231 (716) 754-0211 Fax

Mr. Steven Doleski (716) 754-0211 Fax
NYS Department of Environmental Conservation
270 Michigan Avenue
Buffalo, New York 14203

Re:

Section 404 Permit Application/Section 401 Water Quality Certification

Facility Upgrade Projects

Gentlemen:

CWM has developed plans for three separate upgrade projects at our Model City Facility. The first project involves construction of a new scales and scalehouse area near the main facility entrance for use in transmittal of shipping papers and weighing of incoming and outgoing transportation vehicles. This location will provide improved traffic patterns compared to the existing scales and scalehouse which are located in the central portion of the facility. The new scales and scalehouse are scheduled to be constructed this year.

The second project will construct a new Drum Management Building to provide container storage and consolidate several related site operations, such as the main laboratory, replacing the existing drum building which is over 20 years old. The new Drum Management Building is scheduled to be constructed during 2004. CWM will be submitting a request to modify its 6NYCRR Part 373 Permit for this project to the New York State Department of Environmental Conservation (NYSDEC) in a separate correspondence.

The third project is the construction of a new landfill, designated Residuals Management Unit No. 2 (RMU-2), and the relocation of several operating areas and buildings. RMU-2 will provide replacement land disposal capacity once the capacity of the existing active landfill at the site is exhausted. Construction for RMU-2 is anticipated to begin during 2005. Applications for state and federal permits required for RMU-2 were submitted by CWM on May 15, 2003, to the NYSDEC and United States Environmental Protection Agency (USEPA).

In order to determine the potential impacts to State and Federal wetlands within the areas impacted by these projects, CWM hired Environmental Design & Research, P.C. (EDR) to perform wetlands delineation. A report entitled "Wetland Delineation Report, Western Expansion Area", dated April 2003, was prepared by EDR and submitted on May 15, 2003, by CWM to the U. S. Army Corps of Engineers (ACOE) and the NYSDEC. EDR has determined that there are no NYSDEC regulated wetland impacts associated with these projects, but there are some potential Federal wetlands which could be considered jurisdictional waters of the United States by the ACOE. In a September 10, 2003, letter, the ACOE verified the Federal wetland boundaries, as shown on the wetlands delineation maps contained in the EDR report.

As specified in the EDR report, this project will impact existing Federal wetlands and existing manmade roadside ditches which exhibit wetland characteristics. The ditches have been constructed and operated as part of the facility's stormwater management system, as required by the NYSDEC. The ACOE has determined that these existing wetlands and roadside ditches are jurisdictional. Mr. Gary McDannell

U.S. Army Corps of Engineers

Mr. Steven Doleski

NYSDEC

November 18, 2003

Re:

Section 404 Permit Application/Section 401 Water Quality Certification

Facility Upgrade Projects

Page - 2 -

The following table summarizes the impacts associated with each of the three projects:

	Wetlands	Ditches	Total
Scales and Scalehouse Area	0.10 acres	0.05 acres	0.15 acres
Drum Management Building	0.18 acres	0.00 acres	0.18 acres
RMU-2 Project	0.38 acres	0.84 acres	1_22 acres
Total	0.66 acres	0.89 acres	1.55 acres

Attached please find a Joint Application for Permit, Form #95-19-3, which requests a Section 404 Permit from the ACOE for the total wetland and ditch impacts associated with the three projects. In addition, a Section 401 Water Quality Certification is being requested from the NYSDEC, if it is determined that one is required for these projects.

CWM proposes to mitigate the loss of the roadside ditches by constructing new, similarly designed and operated ditches near the existing ditch location as part of project construction. The new ditches will provide the same function and serve the same stormwater runoff control purpose as the existing ditches which are being replaced by the projects. Mitigation for the relatively minor Federal wetland impact caused by these projects can not be feasibly provided through creation of new replacement wetlands either onsite or offsite, as explained in the attached application. CWM proposes to provide mitigation through a donation in the amount of \$30,000 to the Buffalo Audubon Society to assist in their efforts to establish a Birds of Prey Center in Niagara County. This environmentally beneficial project is anticipated to include various exhibits, bird enclosures, flight areas, native habitats, ponds, walking trails and educational elements. The amount of the proposed donation is consistent with a previous mitigation donation made by CWM for the Birds of Prey Center, adjusted for the relative amount of wetland impact (ref. April 28, 2003, letter, J. Knickerbocker to H. Adams).

CWM would greatly appreciate an expeditious review of the attached information and permit issuance to enable CWM to meet the project construction schedules stated above. It should be noted that CWM has already initiated the portion of construction for the scales and scalehouse project which impacts the man-made ditches based on verbal direction from the ACOE. All other wetlands and ditches have not yet been impacted.

If you have any questions or comments, please call Mr. John B. Hino at (716) 754-0278 or myself at (716) 754-0246.

Mr. Gary McDannell

U.S. Army Corps of Engineers

Mr. Steven Doleski

NYSDEC

November 18, 2003

Re:

Section 404 Permit Application/Section 401 Water Quality Certification

Facility Upgrade Projects

Page - 3 -

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

Sincerely,

JUI O. KALLUDOCH

Jill A. Knickerbocker

Technical Manager

Model City Facility

Q&A

JBH/JAK/jbh

Attachment

cc:	J. Dietz	- NYSDEC/Region 9	- W/O Attachment
	J. Strickland	- NYSDEC/Region 9	- W/O Attachment
	B. Rostami	- NYSDEC/Region 9	 W/Attachment
	E. Dassatti	- NYSDEC/Albany, NY	 W/Attachment
	J. Sacco	- NYSDEC/On-site Monitor	- W/O Attachment
	J. Reidy	- USEPA/Region II	- W/O Attachment
	J. Devald	- NCHD/Lockport, NY	- W/O Attachment
	R. Sturges	- CWM/Model City, NY	- W/O Attachment
	J. Hino	- CWM/Model City, NY	- W/Attachment
	S. Rydzyk	- CWM/Model City, NY	- W/O Attachment
	J. Hecklau	- EDR/Syracuse, NY	- W/O Attachment
	EMD Subject File	•	



July 6, 2009

CWM CHEMICAL SERVICES, LLC 1550 Balmer Road

Model City, NY 14107 (716) 286-1550 (716) 286-0211 Fax

Mr. Harold Keppner U.S. Army Corps of Engineers 1776 Niagara Street Buffalo, New York 14207-3199

Request for Jurisdictional Determination Re:

Dear Mr. Keppner:

On May 15, 2003, CWM Chemical Services, LLC, Model City Facility (CWM) submitted a wetlands delineation report to the U.S. Army Corps of Engineers, Buffalo District (Corps), for potential impacts associated with future construction of a new landfill, designated Residuals Management Unit No. 2 (RMU-2). At that time CWM also submitted a 6NYCRR Part 373 Permit Application to the New York State Department of Environmental Conservation (NYSDEC) which is still pending. Due to the anticipated timing of the NYSDEC review and subsequent projected construction schedule, the Corps temporarily suspended processing of the wetlands evaluation.

CWM has hired Environmental Design & Research, P.C. (EDR) to update the wetlands delineation to determine potential impacts to State and Federal wetlands associated with the RMU-2 project. The attached report entitled "Wetland Delineation Report, RMU-2 Landfill Expansion Area", dated June 2009, prepared by EDR, contains the results of this wetlands evaluation. The attached report replaces the 2003 report in its entirety. RMU-2 and associated project areas are situated within previously developed locations of the CWM Model City Facility. EDR has determined that there are no NYSDEC regulated wetlands associated with any of these project areas. The potential for impacts to Federally regulated wetlands consists of three man-made wastewater treatment ponds, man-made roadside ditches used for stormwater management and isolated pockets with minimal wetland function. As such, it is likely that there will be only minor impact to any jurisdictional Waters of the U.S.

CWM is anticipating that the NYSDEC review of the Part 373 Permit Application will be progressing over the next several months. Therefore, a resumption of the wetlands evaluation is appropriate at this time. CWM would greatly appreciate an expeditious review of the attached wetlands delineation report and issuance of a jurisdictional determination. CWM welcomes the opportunity to meet with the Corps and tour all of the project areas at your earliest convenience in order to facilitate the Corps' jurisdictional determination.

Please call Mr. John B. Hino at (716) 286-0278 or myself at (716) 286-0246 to schedule a site visit and if you have any questions or comments.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

From everyday collection to environmental protection, Think Green? Think Waste Management.

Mr. Harold Keppner

U.S. Army Corps of Engineers

July 6, 2009

Re:

Request for Jurisdictional Determination

Page - 2 -

Sincerely,

CWM CHEMICAL SERVICES, LLC

Ju a. Baraszel

Jill A. Banaszak

Technical Manager Model City Facility

JBH/JAB/jbh Attachment

S. Doleski	
J. Dietz	
J. Strickland	
B. Rostami	
R. Phaneuf	
M. Mortefolio	
P. Kutlina	
J. Reidy	
J. Devald	
M. Mahar	
R. Zayatz	
J. Hino	
	J. Dietz J. Strickland B. Rostami R. Phaneuf M. Mortefolio P. Kutlina J. Reidy J. Devald M. Mahar R. Zayatz

S. Rydzyk

J. Hecklau

Q&A

EMD Subject File

- NYSDEC/Region 9
 NYSDEC/Region 9
 NYSDEC/Region 9
 NYSDEC/Region 9
 NYSDEC/Albany, NY
 NYSDEC/Albany, NY
 NYSDEC/On-site Monitor
 USEPA/Region II
 NCHD/Lockport, NY
 CWM/Model City, NY
- W/O Attachment
 W/O Attachment
 W/O Attachment
 W/O Attachment
 W/O Attachment
 W/Attachment
 W/O Attachment
 W/O Attachment
 W/O Attachment
 W/O Attachment
 W/O Attachment
 W/O Attachment
 W/O Attachment

Wetland Delineation Report

RMU-2 Landfill Expansion Area

CWM Chemical Services Property Town of Porter Niagara County, New York

Prepared For:

CWM Chemical Services 1550 Balmer Road Model City, NY 14107

Prepared By:

Environmental Design & Research, Landscape Architecture, Planning Environmental Services, Engineering and Surveying, P.C.
274 North Goodman Street
Rochester, New York 14607

June 2009

TABLE OF CONTENTS

1.0 INTR	ODUCTION	<i>*</i>
	pject Site Description	
	rpose	
1.3 Re	sources	2
	alifications	
2.0 REGI	JLATORY AUTHORITIES AND PERMITS	4
2.1 Wa	iters of the United States	4
2.2 Ne	w York Freshwater Wetlands and Protected Streams	6
3.0 EXIS	TING CONDITIONS	8
3.1 Ph	ysiography and Soils	8
3.2 Hy	drology	10
	getation	
	deral and State Mapped Wetlands and Streams	
	ITE JURISDICTIONAL AREA DELINEATION	
	thodology	
4.1.1	Soils	12
	-lydrology	
	/egetation	
	sults	
	Vetlands	
	CLUSIONS	
6.0 REFE	RENCES	27
	LIOT OF FLOURING	
	LIST OF FIGURES	
Figure 1	Regional Project Location	
Figure 2	Project Area	
Figure 3	Topographic Mapping	
Figure 4	Site Soils	
Figure 5	NYSDEC Freshwater Wetlands	
Figure 6	NWI Federal Wetland Mapping	
Figure 7	Surface Waters	
Figure 8	Delineated Wetlands	
-	LIST OF TABLES	
T. I.I. A	0" 0 "	
Table 1	Site Soils	
Table 2	Delineated Wetlands and Streams	
	LIST OF APPENDICES	
Appendix A	Figures	
Appendix B	Routine Wetland Determination Forms	
Appendix C	Fac Pond and Delineated Wetland Photographs	
	→	

1.0 INTRODUCTION

1.1 Project Site Description

At the request of CWM Chemical Services (CWM), Environmental Design & Research, Landscape Architecture, Planning, Environmental Services, Engineering and Surveying, P.C. (EDR), investigated four areas of land, totaling approximately 64 acres, for the purposes of identifying and delineating all wetlands and streams in or nearby the footprint of a proposed landfill expansion (Residuals Management Unit 2 [RMU-2]) and related facilities. These four areas of investigation (hereafter referred to as the Project Area) are located within the working portion of CWM's Model City facility, in the Town of Porter, Niagara County, New York (see Figures 1 and 2, Appendix A). The CWM facility is located at 1550 Balmer Road in an area zoned M-3 for waste management operations. The CWM facility is bordered by Balmer Road to the north, Porter Center Road to the east, the Modern Disposal Services, Inc. Municipal Landfill to the south, and disturbed but presently undeveloped woodlands to the west. The facility is also surrounded by rural residential areas, agricultural lands, and a United States National Guard training area to the north (immediately north of Balmer Road). A description of the four areas (the Project Area) to be utilized by CWM as a part of the RMU-2 landfill expansion is located below.

Area 1, located west of Porter Center Road and east of the active landfill Residuals Management Unit 1 (RMU-1) (see Figure 2), is an approximately 3.6 acre area that currently is maintained as a successional, old-field community through regular mowing. It is the proposed location of a new Drum Management Building. This building will replace the current Drum Management Building, which is in the footprint of the proposed RMU-2 landfill expansion. The new building will include a truck unloading ramp, drum storage warehouse, laboratory, and offices (Hino, pers. comm., 2009).

Area 2, located on the north central portion of the Site (Figure 2), is an approximately 6.4 acre area that is also a regularly mowed, old-field community. It is proposed to be the location of Facultative (Fac) Pond 5. The Fac Ponds are man-made reservoirs constructed to store treated waste water. The water is tested prior to release to the Niagara River via a piped discharge (SPDES Permit # NY 0072061). Proposed Fac Pond 5 will be used for the storage of treated wastewater transferred from existing Fac Pond 1/2, and will serve as the final qualification pond prior to discharge to the Niagara River, replacing existing Fac Pond 3 which will be removed as part of the RMU-2 development (Hino, pers. comm., 2009).

Area 3, located on the southwestern portion of the Site is an approximately 5.1 acre area, and is currently the location of Fac Pond 1/2 (Figure 2). This Fac Pond receives treated wastewater from the on-Site Aqueous Wastewater Treatment facility for temporary holding prior to transfer to the final qualification pond. As part of the proposed expansion, Fac Pond 1/2 will be enlarged during the RMU-2 project by raising the existing perimeter berms and eliminating the center berm. The proposed modifications to Fac Pond 1/2 will occur entirely within the boundaries of Area 3 (Hino, pers. comm., 2009).

Area 4, located in the central portion of the Site (Figure 2), is an approximately 50-acre area proposed to be the future site of the RMU-2 landfill, a perimeter access road, and a new Full Trailer Park (Hino, pers. comm.). This area currently contains portions of the internal access road system, various structures and buildings, road-side ditches, and Fac Ponds 3 and 8. Ditches in this (and the other areas evaluated) are part of a man-made stormwater management system that conveys surface water run-off from the roads and other on-Site facilities to Four Mile Creek, located west of the Site.

1.2 Purpose

The purpose of this study was to determine the presence of state and/or federal jurisdictional wetlands and streams within the Site boundaries. The work performed for this study included background data collection, field delineation (flagging) of potentially jurisdictional wetland and stream boundaries during the Spring of 2009, data gathering at wetland and upland sample points along the delineated wetland and stream boundaries, and compiling a detailed description of those jurisdictional areas based on hydrology, vegetation, and soils data collected on-Site.

This report describes the results of the 2009 delineation and data collection efforts conducted by EDR, as well as a description of the wetlands and streams that were identified and delineated. This document is intended to provide all necessary information to allow a jurisdictional determination by, and if necessary support a Joint Application for Permit to, the United States Army Corps of Engineers (USACE) and the New York State Department of Environmental Conservation (NYSDEC).

1.3 Resources

Data and literature supporting this investigation have been obtained from a number of sources including United States Geological Survey (USGS) topographic mapping (Ransomville 7.5-minute quadrangle), United States Fish and Wildlife Service (USFWS),

National Wetlands Inventory (NWI) mapping, NYSDEC Freshwater Wetlands mapping, the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Soil Survey of Niagara County, New York (1972), and recent (2005) natural color aerial photography obtained from the New York State Geographic Information System (GIS) Clearinghouse (http://www.nysgis.state.ny.us/gateway/mg/nysdop_download.cfm).

Vascular plant names follow nomenclature found in Gleason and Cronquist (1991). Wetland indicator status for vegetative species was determined using Reed (1988). Wetlands were characterized according to the wetlands and deepwater habitats classification system used in NWI mapping (Cowardin et. al., 1979).

1.4 Qualifications

EDR wetland ecologists Bill Trembath and Brian Schwabenbauer performed the on-Site delineation on April 27, 28, and 29, 2009.

Mr. Trembath is an environmental scientist with 20 years of professional experience in wetland delineations, SEQRA compliance, state and federal wetland permitting, wetland mitigation design and monitoring, environmental impact analysis, and ecological surveys. He has served as project manager for a variety of wetland delineation and regulatory compliance projects in New York State. As a Project Manager with EDR, he has prepared numerous Phase 1 Environmental Site Assessments, wetland delineation reports, and wetland mitigation area monitoring reports.

Mr. Schwabenbauer is an environmental analyst with over 8 years of experience in the environmental field. He received a bachelor's degree in environmental studies from Hobart College, and a master's degree in environmental policy from SUNY College of Environmental Science and Forestry. Professional expertise includes GPS surveying and mapping, GIS data analysis, wetland delineations, environmental impact analysis, and SEQRA compliance.

2.0 REGULATORY AUTHORITIES AND PERMITS

The USACE and NYSDEC regulate various activities in or adjacent to wetland and stream areas that are under their jurisdiction. Below is a description of the agencies' jurisdiction and permit policies.

2.1 Waters of the United States

The Clean Water Act was established to regulate impacts to waters of the United States and regulate water quality standards. Any proposed action that would alter or disturb the "waters of the U.S.," such as dredging or filling, are regulated under Section 404 of the Clean Water Act, and the USACE must review and issue a permit for any such proposed action.

As defined by the USACE, waters of the U.S. include all lakes, ponds, streams (intermittent and perennial), and wetlands. Section 404 of the Clean Water Act, defines jurisdictional wetlands as "those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions" (EPA, 2001). The occurrence of such areas is determined by the presence of three criteria: hydrophytic vegetation, hydric soils, and evidence of wetland hydrology during the growing season (Environmental Laboratory, 1987). However, as a result of the <u>Solid Waste Agency of Northern Cook County v. U.S. Army Corps of Engineers</u> Supreme Court case (No. 99-1178; January 9, 2001), it has been determined that the USACE does not have jurisdictional authority over waters that are "non-navigable, isolated, and intrastate" (EPA, 2001).

More recently, the Supreme Court decided *U.S. v. Rapanos*, (547 U.S., June 19, 2006), in which it held in two consolidated cases (the other one was *Carabell*) that the USACE misinterpreted the Clean Water Act in determining its jurisdiction over wetland protection. On June 5, 2007 the Environmental Protection Agency (EPA) and the Department of Army (DOA) issued Clean Water Act jurisdiction guidance following the Supreme Court's decision in Rapanos and Carabell. A summary of this guidance is as follows:

The agencies will assert jurisdiction over the following waters:

- Traditional navigable waters
- Wetlands adjacent to traditional navigable waters
- Non-navigable tributaries of traditional navigable waters that are relatively permanent
 where the tributaries typically flow year-round or have continuous flow at least
 seasonally (e.g., typically three months)

Wetlands that directly abut such tributaries

The agencies will decide jurisdiction over the following waters based on a fact-specific analysis to determine whether they have significant nexus with a traditional navigable water:

- Non-navigable tributaries that are not relatively permanent
- Wetlands adjacent to non-navigable tributaries that are not relatively permanent
- Wetlands adjacent to, but that do not directly abut, a relatively permanent nonnavigable tributary

The agencies generally will not assert jurisdiction over the following features:

- Swales or erosional features (e.g., gullies, small washes characterized by low volume, infrequent, or short duration flow)
- Ditches (including roadside ditches) excavated wholly in and draining only uplands and that do not carry a relatively permanent flow of water

The agencies will apply the significant nexus standard as follows:

- A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by all wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical and biological integrity of downstream traditional navigable waters
- Significant nexus includes consideration of hydrologic and ecologic factors

Section 401 of the Clean Water Act (CWA) requires that any applicant for a Federal license or permit to conduct any activity including, but not limited to, the construction or operation of facilities, which may result in any discharge into the navigable waters, shall provide the licensing or permitting agency a certification from the State in which the discharge originates or will originate. Section 401 gives New York State the authority to grant, deny, or condition certification of Federal permits or licenses (e.g., CWA Section 404 permits issued by the U.S. Army Corps of Engineers, Federal Energy Regulatory Commission licenses, some Rivers and Harbors Act Sections 9 and 10 permits, and CWA Section 402 permits where issued by EPA) that may result in a discharge to "waters of the U.S." Such action is taken by the State to ensure compliance with various provisions of the CWA.

Section 10 of the Rivers and Harbor Act (33 U.S.C. 401 et seq.) requires a permit from the USACE to construct any structure in or over any navigable water of the United States, as well as any proposed action that would alter or disturb these waters (such as

excavation/dredging or deposition of materials). If the proposed structure or activity affects the course, location, condition, or capacity of the navigable water, even if the proposed activity is outside the boundaries of the water body, a permit from the USACE is required.

2.2 New York Freshwater Wetlands and Protected Streams

The New York State Freshwater Wetlands Act (Article 24 and Title 23 of Article 71 of the Environmental Conservation Law) gives the NYSDEC jurisdiction over state-protected wetlands and adjacent areas (100-foot upland buffer). The Freshwater Wetlands Act requires the NYSDEC to map all state-protected wetlands to allow landowners and other interested parties a means to determine where state jurisdictional wetlands exist. To implement the policy established by this Act, regulations were promulgated by the state under 6 NYCRR Parts 663 and 664. Part 663 of the regulations 1) defines the procedural requirements to be followed in undertaking different activities in wetlands and in areas adjacent to wetlands; 2) establishes standards governing the issuance of permits by the Department pursuant to the Act; and 3) governs the Department's implementation of the Act. Part 664 of the regulations designates wetlands into four class ratings, with Class I being the highest or best quality wetland and Class IV being the lowest. In general, wetlands regulated by the state are those 12.4 acres in size or larger. Smaller wetlands can also be regulated if they are considered of unusual local importance. A 100foot adjacent area around the delineated boundary of any state-regulated wetland is also under NYSDEC jurisdiction. An Article 24 permit is required from the NYSDEC for any disturbance, including removing vegetation, to a state-protected wetland or an adjacent area (with a few exceptions that do not pertain to CWM's current work or proposed landfill expansion).

Under Article 15 of the Environmental Conservation Law (Protection of Waters), the NYSDEC has regulatory jurisdiction over any activity that disturbs the bed or banks of protected streams. In addition, small lakes and ponds with a surface area of 10 acres or less, located within the course of a protected stream, are considered to be part of a stream and are subject to regulation under the stream protection category of Article 15. Protected stream means any stream, or particular portion of a stream, that has been assigned by the NYSDEC any of the following classifications or standards: AA, AA(t), A, A(t), B, B(t) or C(t/ts) (6 NYCRR Part 701). A classification of AA or A indicates that the best use of the stream is as a source of water supply for drinking, culinary or food processing purposes; primary and secondary contact recreation; and fishing. The best usages of Class B waters are primary and secondary contact recreation and fishing. The best usage of Class C waters is fishing.

Streams designated (t) indicate that they support trout, and also include those more specifically designated (ts) which support trout spawning. State water quality classifications of unprotected watercourses include Class C and Class D streams. Waters with a classification of D are suitable for fishing and non-contact recreation. An Article 15 permit is not required for disturbance to an un-protected stream.

3.0 EXISTING CONDITIONS

3.1 Physiography and Soils

The Site is located within the Ontario Plain section of the Central Lowland physiographic province of New York. The Ontario Plain extends from the shore of Lake Ontario to the foot of the Niagara Escarpment. Elevation of this province within Niagara County ranges from 250 feet above mean sea level (amsl) along the lakeshore to 390 feet amsl located at the base of the Niagara Escarpment located in the Town of Lewiston, New York (NRCS, 1972). Topography on the Site varies from 370 feet amsl in the northeastern portion of the Site on top of a closed landfill, to approximately 290 feet amsl throughout the majority of the Site (Figure 3).

Based on available soils mapping for Niagara County (NRCS, 1972), the four areas of investigation on Site are underlain by three soil series: Made land, Madalin silt loam, and Ovid silt loam (Figure 4). One soil series within the Site is classified as hydric (Madalin silt loam) and one soil (Ovid silt loam) has the potential for hydric inclusions, according to the USDA NRCS (NRCS, 1989 and 2008). Table 1 below presents detailed information for all of the soils listed as occurring within the four areas of investigation on Figure 4. However, it should be noted that soil conditions have changed significantly since the County Soil Survey was published in 1972. Many of the areas evaluated in this investigation have subsequently been converted to additional made land through landfill-related activities. The majority of the soils examined during the delineation effort would be accurately classified as "made land" based on Soil Survey mapping or disturbance/alteration that has occurred on-Site since publication of the Soil Survey in 1972. EDR wetland biologists took this into consideration during their wetland delineation efforts.

Table 1. Site Soils.1

Series	Subgroup	Mapping Unit	Slope (%)	Drainage ³	Landscape Position	Noted Hydrology ⁴	Depth to Seasonal High Water Table (ft)	Hydric Soil ⁵
Made land ²	N/A	Me	N/A	N/A	N/A	N/A	N/A	N/A
Ovid silt loam	mesic Aeric Endoaqualfs	OvA	0-2	SPD	Located in large, nearly level areas that normally are near the beds of old post-glacial lakes	Potential for surface runoff is very high to high	0.5 - 1	No
Madalin silt loam	mesic Mollic Endoaqualfs	Ma	0-2	PD-VPD	Occurs on broad flats or in narrow drainage ways in the basins of old glacial lakes	Most areas receive runoff from higher elevations and lack natural outlets	0 - 0.5	Yes
Madalin silt loam (with a loamy subsoil variant)	mesic Mollic Endoaqualfs	Md	0-2	PD-VPD	Occur in or adjacent to areas that were formally glacial lakes	Most areas receive runoff from higher elevations and lack natural outlets	0 – 0.5	Yes

Unless otherwise noted, information derived from the Soil Survey of Niagara County, New York (NRCS, 1972).

Made land lacks the normal characteristics of classifiable soil series and therefore lacks soil series description data.

Soil drainage is represented by the following abbreviations: "VPD" = very poorly drained, "PD" = poorly drained, "SPD" = somewhat poorly drained, "MWD" = moderately well drained, "WD" = well drained, "SED" = somewhat excessively drained, and "ED" = excessively drained.

⁴ Hydrology information obtained from USDA-NRCS Soil Survey Division, Official Soil Series Descriptions (http://ortho.ftw.nrcs.usda.gov/cgi-bin/osd/osdname.cgi).

⁵ According to Hydric Soils of the State of New York (NRCS, 2008).

3.2 Hydrology

The Site is located in the Great Lakes Drainage Basin and is part of USGS Hydrologic Unit 04120104 of the Niagara River Watershed. In Niagara County, total annual liquid precipitation is approximately 36 inches (National Weather Service Website, 2009). Wetland hydrology on-Site appears to be generated primarily by precipitation and surface runoff from adjacent upland areas, including numerous buildings and impervious surfaces throughout the CWM Model City facility. Surface water drains primarily into a series of ditches and drainage features on-Site. These are part of the previously mentioned man-made stormwater management system that conveys surface water runoff from the Site to Four Mile Creek, which discharges into Lake Ontario north of the Site.

3.3 Vegetation

The four areas of investigation consist largely of previously disturbed/developed land, and therefore lack significant areas of natural vegetation. The majority of the vegetation within the four areas of investigation can be characterized as maintained (regularly mowed) old-fields. There are also small patches of maintained lawns, deciduous forestland and shrubland vegetative communities. In addition, some small wetland vegetative communities were observed as well, and are discussed in detail in Section 4.2 below.

3.4 Federal and State Mapped Wetlands and Streams

Review of NYS Freshwater Wetland mapping indicates that there are no NYSDEC mapped or regulated (under Article 24) wetlands within the Site boundaries. The nearest state regulated wetlands are Wetland RV-8 and RV-1, located off Site to the northeast and south, respectively (Figure 5).

Review of NWI mapping indicates that there are multiple portions of different federally mapped wetlands/waters on the CWM Model City property (Figure 6). However, only three federally mapped waters occur within the four areas of investigation (one in Area 3 and two in Area 4). All these wetlands are classified as PUBKHx (Palustrine, Unconsolidated Bottom, Artificially Flooded, Permanently Flooded, and Excavated) and correspond to previously described Fac Ponds 1/2, 3 and 8. One additional federally mapped wetland, identified as PFO1/4Bd (Palustrine, Forested, Broad-Leaved Deciduous, Forested, Needle-Leaved Evergreen, Saturated, Partially Drained/Ditched) corresponds with the location of EDR Delineated Wetland A (see discussion of Wetland A in Section 4.2.1).

There is only one mapped stream within the four areas of investigation at the CWM Model City facility, and it passes through the eastern portion of Area 4. It is an unnamed tributary of Four Mile Creek, and is classified as an unprotected Class C stream (Figure 7). This stream corresponds with EDR Delineated Wetland J and is located immediately west of the active portion of the RMU-1 landfill. It currently serves as a part of the stormwater management system, conveying surface water through a series of culverts before out-letting off-Site to Four Mile Creek and eventually Lake Ontario (see discussion in 4.2.1).

There are no waters regulated under Section 10 of the Rivers and Harbors Act of 1899 (navigable waters) within or adjacent to the Site.

4.0 ON-SITE JURISDICTIONAL AREA DELINEATION

4.1 Methodology

The determination of wetland and stream boundaries was made by EDR personnel according to the three-parameter (soil, hydrology, and vegetation) methodology described in the 1987 Corps of Engineers Wetland Delineation Manual (hereafter referred to as the 1987 Manual) (Environmental Laboratory, 1987). Wetland and stream boundaries were defined in the field with sequentially numbered pink surveyor's flagging, and were subsequently surveyed using a backpack Trimble Pro XRS GPS with reported sub-meter accuracy. Delineated wetland figures were created using the wetland GPS survey and GIS base mapping.

Data were collected from upland and wetland sample plots on April 27, 28, and 29, 2009, and were recorded on *Routine Wetland Determination* forms (Appendix B). Data collected for the delineated wetlands included soil characteristics, hydrology indicators, and dominant vegetation. Details of the data collection process are described below. In addition, photographs of the delineated wetlands and streams were obtained during data collection, and are included in Appendix C.

4.1.1 Soils

EDR personnel used a Dutch soil auger to collect upland and wetland soil data at each sampling location to a depth of 16 inches. Information concerning soil texture and matrix and mottle color was obtained from on-Site sampling, while information regarding soil series, subgroup, and drainage classification was obtained from existing data sources (NRCS, 1972). Areas of made land that are different from those mapped in the Niagara County Soil Survey were noted during the field review and subsequent data collection. This information was used to determine whether the soils displayed hydric characteristics. Hydric soils are those that are saturated, flooded, or ponded long enough during the growing season to develop anaerobic conditions in the upper part of the soil layer. Hydric soils are poorly drained, and their presence is indicative of the likely occurrence of wetlands (Environmental Laboratory, 1987). Hydric soils were determined in the field through observation of composition, color, and morphology. Soil colors were determined by consulting *Munsell Soil Charts* (Kollmorgen Corp., 2000).

4.1.2 Hydrology

The 1987 Manual lists the following indicators as evidence of wetland hydrology (in order of decreasing reliability): (1) visual observation of inundation, (2) visual observation of soil saturation, (3) water marks, (4) drift lines, (5) sediment deposits, and (6) drainage patterns. Hydrologic characteristics (inundation and soil saturation) were visually assessed to a depth of 12 inches. The hydrology indicators described above are considered "primary indicators," and any one of these indicators is sufficient evidence that wetland hydrology is present. In addition, "secondary indicators" used by EDR personnel included: (1) oxidized root channels in the upper 12 inches of soil, (2) water-stained leaves, (3) local soil survey data, and (4) morphological plant adaptations. Any two of these also indicate the presence of wetland hydrology.

4.1.3 Vegetation

The vegetative data collection process focused on dominant plant species in four categories: trees (>3" diameter at breast height), saplings/shrubs (<3.0" diameter at breast height and >3.2' tall), herbs (<3.2' tall), and woody vines. Dominance was measured by visually estimating those species having the largest relative basal area (trees), greatest height (saplings/shrubs), greatest number of stems (woody vines), and greatest percentage of aerial coverage (herbaceous) by species. Dominant species for each stratum in the plant community were identified for each sample point on the Project Site. The dominant species from each category are defined as those plants with the highest ranking which, when cumulatively totaled, exceeds 50 percent of the total dominance measure for that category, plus any additional plant species comprising 20 percent or more of the total dominance measure for the category. The species were rank ordered for each category by decreasing value of percent cover.

Wetland hydrology, when combined with a hydrophytic plant community and hydric soils, indicate the potential presence of a federal jurisdictional wetland. The boundaries of state jurisdictional wetlands are also generally defined by a dominance of hydrophytic vegetation and coincide with the location of a mapped NYS Freshwater Wetland. However, final jurisdictional determination can only be made by the USACE.

4.2 Results

4.2.1 Wetlands

EDR personnel delineated 15 wetlands on-Site totaling approximately 3.25 acres, only some of which will be impacted by the current design of the RMU-2 project (Table 2). The wetlands delineated on-Site consist of four types, including emergent, emergent/scrub-shrub, emergent/scrub-shrub/forested, and scrub-shrub/forested. However, the majority of the delineated areas are essentially drainage ditches that are part of the man-made stormwater management system. The size and location of the delineated on-Site wetlands are depicted in Appendix A, Figure 8, and representative photos of each wetland type are provided in Appendix C. Descriptions of the wetlands delineated on-Site are presented below. These descriptions are based on data included on the routine wetland determination forms provided in Appendix B. The wetlands are separated according to the portion of the Site (Area 1 – Area 4) within which they were identified.

Area 1

Wetland A

Located just outside the southeast corner of Area 1, the delineated area of Wetland A is approximately 0.23 acre in size and characteristic of an emergent/scrub-shrub wetland community (Figure 8, Sheets 2 and 3). The western portion of this wetland is dominated by silky dogwood (Cornus amomum), willow shrubs (Salix spp), common reed (Phragmites australis), and field horsetail (Equisetum arvense) (Appendix C, Photo 5). Evidence of hydric soils includes low chroma matrix colors (10YR 3/2 and 10YR 5/2), concretions, and a texture consistent with clay. Evidence of wetland hydrology at the time of delineation included soil saturation and oxidized root channels in the upper 12 inches of soil, and morphological plant adaptations (hummocky microtopography). It appeared at the time of investigation that Wetland A receives surface runoff from the disturbed old-field located immediately to the north/northwest, and that this wetland extends beyond the delineated portion to the southeast.

Uplands adjacent to Wetland A are characterized as a disturbed upland old-field (mowed) to the north and a forested area (mixed northern hardwood forest/shrub land) to the south and east. Uplands adjacent to Wetland A are distinguished from the wetland by the dominance of upland plant species. Vegetation at the upland sample point for Wetland A was dominated by bluegrass (Poa spp.) and fescues (Festuca spp.), with white clover (Trifolium repens), perennial rye grass (Lolium perenne) and dandelion (Taraxacum officinale) present

as well. There was no evidence of wetland hydrology in these areas, and the 10YR 4/3 silt loam soils did not display hydric characteristics.

Wetland B

Wetland B (0.11 acre) is also located immediately outside the southwest corner of investigation Area 1, approximately 300 feet west of Wetland A, and east of an existing facility access road (Figure 8, Sheets 2 and 3). The delineated area of this wetland is a small portion (the northernmost end) of a man-made stormwater detention basin. The vegetation is dominated by wetland species, specifically common reed, sedges (Carex spp.) and soft rush (Juncus sp.) (Photo 6). Evidence of hydric soils includes low chroma matrix colors (10YR 3/2 and 10YR 5/2) with common high chroma mottles (10YR 5/6), concretions, and a texture consistent with clay. Evidence of wetland hydrology included inundation (up to 3 inches deep), oxidized root channels in the upper 12 inches of soil, and hummocky microtopography. Hydrology in this man-made wetland continues south beyond the delineated area and likely off-Site.

Uplands adjacent to Wetland B are identical to those described for Wetland A, as Wetland B is bordered by an access road to the west and the same disturbed old-field/mowed area to the north/northeast. Therefore, Wetland B shares an upland sample point with Wetland A.

Wetland C

Wetland C is also located just outside of Area 1 to the northeast, and measures 0.13 acre in size (Figure 8, Sheets 2 and 3). Wetland C can be characterized as an emergent/scrubshrub wetland community. Vegetation within the delineated area of Wetland C is dominated by black willow (Salix nigra) trees, willow shrubs, silky dogwood, and common reed (Photo 7). Evidence of hydric soils includes low chroma matrix colors (10YR 3/2 and10YR 5/2) with common high chroma mottles (10YR 5/6) and concretions. Signs of hydrology in the wetland consist of saturated soils and oxidized root channels in the upper 12 inches, morphological plant adaptations, and hummocky microtopography. Wetland C continues beyond the delineated area.

The upland areas adjacent to Wetland C are similar to those described previously for Wetland A, as it is bordered by both the disturbed old-field and northern hardwood forest. There was no evidence of wetland hydrology in these areas, and the 10YR 4/3 soils did not display hydric characteristics.

Wetland D

Located just outside of the northwest corner of Area 1, Wetland D is characteristic of an emergent wetland and measures 0.05 acre (Figure 8, Sheets 2 and 3). Wetland D is bounded by an access road to the west, upland forest to the east, and mowed/disturbed field to the south. The vegetation is comprised almost exclusively of common reed (80 to 90 percent), with some sedges, field horsetail, and silky dogwood also present (Photo 8). Evidence of hydric soils includes low chroma matrix colors (10YR 3/2 and 10YR 5/2) with common high chroma mottles (10YR 5/6) and concretions. Signs of hydrology at the time of investigation included saturated soils and oxidized root channels in the upper 12 inches, free water at a depth of 4 to 5 inches below the soil surface, and morphological plant adaptations (hummocky microtopography). It appears that this wetland may continue beyond the delineated boundaries to the north.

Adjacent uplands include an access road, disturbed old-field/lawn, and northern hardwood forest. There was no evidence of wetland hydrology in these areas, and the 10YR 4/3 soils did not display hydric characteristics.

Area 2

Wetland G

Located in the northernmost portion of Area 2, Wetland G is approximately 0.41 acre in size and is characteristic of an emergent wetland community (Figure 8, Sheets 4 and 5). Wetland vegetation is made up almost exclusively of common reed and silky dogwood shrubs (at a height of less than 24 inches). Evidence of hydric soils includes low chroma matrix colors (10YR 3/2 and 10YR 5/2) and common high chroma mottles (10YR 5/6). Signs of wetland hydrology included inundation (up to 2 inches), oxidized root channels, and hummocks. There is likely hydrologic connectivity between Wetland G and off-Site wetlands via a culvert that passes underneath the access road to the north.

Uplands adjacent to Wetland G are characteristic of a disturbed/regularly-mowed old-field. Vegetation is dominated by fescues and perennial rye grass, with old-field cinquefoil present in smaller amounts. Although the clay soils displayed low chroma matrix color (10YR 5/2) at a depth greater than 14 inches, there was no evidence of wetland hydrology in these areas.

Wetland H

Wetland H is located approximately 40 feet south of Wetland G. It is characteristic of an emergent wetland community and is just 0.04 acre in size (Figure 8, Sheets 4 and 5). Wetland vegetation in this area is dominated by common reed (90 percent) with sedges

present to a lesser degree (10 percent). Evidence of hydric soils includes low chroma matrix colors (10YR 3/2 and 10YR 5/2) and common high chroma mottles (10YR 5/6). Signs of wetland hydrology at the time of investigation included saturated soils, a depth to free water of 1 to 2 inches below the soil surface, water stained leaves, and hummocky microtopography. Pockets of standing water 1 to 2 inches deep were also noted. Field observations by EDR wetland biologists suggest that this wetland is isolated and does not display a significant nexus to any other wetlands. While Wetland G is in proximity to Wetland H, there was no apparent hydrological connection and a dominance of upland vegetative species was determined to exist between the two areas.

Upland data for Wetland H were taken from a shared sample point between Wetland H and Wetland G, and is as described in the previous discussion of Wetland G.

Wetland I

Wetland I is essentially a man-made drainage ditch that serves as part of the on-Site stormwater management system. Located in the southeastern corner of Area 2 and measuring 0.10 acre, this wetland collects surface water runoff from the adjacent access road and uplands (Figure 8, Sheets 4 and 5). Characteristic of an emergent wetland community, Wetland I is dominated by common reed, with sedges and field horsetail present as well. Evidence of hydric soils includes low chroma matrix colors (10YR 3/2 and 10YR 5/2) and common high chroma mottles (10YR 5/6). Primary indicators of wetland hydrology, including inundation (up to 1 inch), saturation in the upper 12 inches of soil, and drainage patterns, were observed in this wetland. Oxidized root channels were also observed in the upper 12 inches of soil. As mentioned previously, this wetland is part of the stormwater management system, and therefore is hydrologically connected to off-Site wetlands via a series of culverts.

Adjacent uplands are significantly disturbed and characteristic of a maintained (regularly mowed) lawn. The uplands immediately north of Wetland I serve as an empty bulk container storage area for the CWM facility. Vegetation in the uplands is dominated by fescues, white clover, dandelion and orchard grass (*Dactylis glomerata*). There was no evidence of wetland hydrology in these areas, and the 10YR 3/3 soils did not display hydric characteristics.

Area 3

There are no delineated wetlands within or near the footprint of Area 3. Area 3 contains Fac Pond 1/2, which is indicated on the NWI mapping as PUBKHx. This Fac Pond measures approximately 4.7 acres in size. It is an excavated rectangular basin with steep banks and

deep water (5-15 feet). Aquatic and emergent vegetation is minimal in these areas, especially in the open water portions (Photos 1 and 2). However as mentioned previously, this is a man made waterbody constructed for the purposes of storing treated wastewater from the on-Site Aqueous Wastewater Treatment facility prior to its periodic transfer to the final qualification pond as volume dictates (Figure 8, Sheets 6 and 7). No data was collected for this area, as it is considered to be an engineered component of the working CWM solid waste facility, and not a jurisdictional water of the U.S.

Area 4

This area also contains two Fac Ponds (Fac Ponds 3 and 8) and the same circumstances apply as described for Fac Pond 1/2 in Area 3. It should be noted that Fac Pond 8 has been drained and is currently out of service.

Wetland J

Located both east and west of a facility access road, Wetland J is actually comprised of two different wetland communities. Connected by a culvert passing underneath the road, this wetland is characteristic of an emergent/forested community west of the road, and an emergent wetland/drainage ditch east of the road (see Figure 8, Sheets 8 and 9). Approximately 0.47 acre of the delineated area is comprised of the emergent wetland/drainage ditch, and another 0.45 acre is made up of the forested wetland community.

The linear emergent wetland/drainage ditch, flowing from south to the north, is dominated by wetland vegetation including narrow-leaf cattail (*Typha angustifolia*), broad-leaf cattail (*Typha latifolia*), and soft rush (Photo 11). Evidence of hydric soils includes low chroma matrix colors (10YR 3/2 and 10YR 5/2) and common high chroma mottles (10YR 5/6). EDR personnel also noted concretions in the soil profile. Primary indicators of wetland hydrology, including inundation (up to 3 inches deep), saturation in upper 12 inches of soil, and sediment deposits, were observed in this wetland. Oxidized root channels in the upper 12 inches of soil and water stained leaves were also noted by EDR personnel. At the time of delineation, sheet flow was observed to pass over the access road and into Wetland J in the vicinity of wetland flag J-34 (see Figure 8, Sheets 8 and 9). From there, surface water appeared to flow north through a series of culverts, but it could not be determined whether the water continued beyond the delineated area at the northern terminus of the wetland. It appeared as though the culvert furthest to the north (near wetland flag J-1, see Figure 8, Sheets 8 and 9) was partially filled with sediment and debris. However, this man made ditch

is part of the stormwater management system designed to be hydrologically connected to off-Site wetlands.

Uplands adjacent to this linear portion of Wetland J are significantly disturbed, and include the slope of an inactive landfill to the east and a facility access road to the west. The vegetation observed on the adjacent uplands (on the slope of the landfill) is dominated by fescues, perennial rye grass, dandelion, common vetch (*Vicia sativa*) and teasel (*Dipsacus sylvestris*). There was no evidence of wetland hydrology in these areas, and the 10YR 3/3 and 10YR 4/3 soils did not display hydric characteristics.

The emergent/forested wetland community portion of Wetland J, located west of the facility access road is dominated by red maple (*Acer rubrum*) and green ash (*Fraxinus pennsylvanica*) trees in the overstory, and sedges and soft rush in the herbaceous layer. Evidence of hydric soils includes low chroma matrix colors (10YR 3/2 and 10YR 5/2) and common high chroma mottles (10YR 5/6 and 10YR 5/8). Primary indicators of wetland hydrology, including inundation (2 to 3 inches deep), saturation in upper 12 inches of soil, and watermarks on the trees, were observed in this wetland. Oxidized root channels in the upper 12 inches of soil, buttressed tree trunks and water stained leaves were also noted by EDR personnel.

Uplands adjacent to the emergent/forested wetland portion of Wetland J are comprised of mowed lawns and facility access roads. Fescues and perennial rye grass dominate the vegetation in the area. There was no evidence of wetland hydrology in these areas, and although the 10YR 3/3 and 10YR 5/2 soils did display some hydric characteristics, there were no signs of hydrology in the adjacent uplands.

Wetland K

Located along the northern boundary of Area 4, Wetland K is characteristic of an emergent wetland within a drainage channel (Figure 8, Sheets 8 and 9). The delineated portion of this wetland equals approximately 0.07 acre, however, the wetland extends beyond the delineated area and outside of Area 4. Wetland K is dominated by wetland vegetation, including common reed, silky dogwood, and sedges (Appendix C, Photo 12). Evidence of hydric soils includes low chroma matrix colors (10YR 3/2 and 10YR 5/2) with common high chroma mottles (10YR 5/6), concretions, and a texture consistent with clay. Evidence of wetland hydrology in the wetland included inundation to a depth of 1 inch, saturated soils in the upper 12 inches, and water-stained leaves. While the wetland extends beyond the delineated area and outside of Area 4, it was considered by EDR ecologists to be potentially

isolated because it was not apparent that there was a significant hydrological connection to other waters of the U.S.

Wetland K is bordered to the east by a paved parking area and to the west by regularly mowed upland areas. The vegetation at the upland sample point was dominated by fescues, with some perennial rye grass, white clover and dandelion present in smaller percentages. There was no evidence of wetland hydrology in these areas, and the 10YR 4/3 soils did not display hydric characteristics.

Wetland L

Wetland L (0.06 acre) is located near the northwestern corner of Area 4, approximately 575 feet southwest of Wetland K. Wetland L is a small emergent wetland that is significantly disturbed (rutted) due to regular mowing. The wetland is dominated by common reed (90 percent), with smaller percentages of sedges and silky dogwood (short shrubs) present as well (Appendix C, Photo 13). Evidence of hydric soils includes low chroma matrix colors (10YR 3/2 and 10YR 5/2) with common high chroma mottles (10YR 5/6), concretions, and a texture consistent with clay. Evidence of wetland hydrology included inundation to a depth of approximately 1 inch, saturated soils and oxidized root channels in the upper 12 inches, and hummocky microtopography. It appeared at the time of investigation that Wetland L is potentially isolated, as it is bordered on all sides by areas of higher topography and CWM facilities/buildings.

The uplands adjacent to Wetland L are characteristic of a disturbed/regularly-mowed lawn. Vegetation is dominated by fescues almost exclusively, with smaller percentages of dandelion, orchard grass and timothy present as well. There was no evidence of wetland hydrology in the adjacent uplands, and the 10YR 4/3 soils did not display hydric characteristics.

Wetland M

Wetland M is located in the central portion of Area 4 and measures 0.54 acre in size (Figure 8, Sheets 8 and 9). This wetland displays characteristics of mixed forested, scrub-shrub, and emergent wetland communities, with areas of man-made drainage channels/swales as well (Appendix C, Photo 14). The wetland is dominated by green ash and red maple trees in the forested portions, and cattails, silky dogwood, and sedges in the scrub-shrub/emergent areas. Evidence of hydric soils includes low chroma matrix colors (10YR 3/2 and 10YR 5/2) with common high chroma mottles (10YR 5/6 and 10YR 5/8). Evidence of wetland hydrology at the time of investigation included inundation to a depth of approximately 2 inches deep,

saturated soils in the upper 12 inches, water marks on the trees, water-stained leaves, and a slight indication of buttressed tree trunks. Some areas of Wetland M contained pockets of standing water in excess of 12 inches deep. Field observations made by EDR wetland biologists suggest that this wetland receives hydrology from numerous drainage ditches and sheet flow. However, a significant nexus to other wetlands could not be found during the wetland delineation efforts. Therefore, it appears that Wetland M is potentially isolated.

Adjacent uplands include facility access roads, parking areas, disturbed field/lawn, and upland hardwood forest/shrubland. Vegetation is dominated by sugar maple and black cherry trees in the forested uplands, multiflora rose, black raspberry and honeysuckle in the shrublands, and orchard grass, dandelion, and white clover in the mowed lawn areas. There was no evidence of wetland hydrology in these upland areas, and the 10YR 4/4 and 10YR 5/4 soils did not display hydric characteristics.

Wetland N

Located on the western boundary line of Area 4, Wetland N is characteristic of an emergent wetland community with a narrow drainage ditch in the middle of the wetland area. The delineated area of Wetland N measures approximately 0.04 acre, but the wetland extends beyond the delineated area and outside of Area 4 (Figure 8, Sheets 8 and 9). The vegetation in Wetland N is dominated almost exclusively by common reed and sedges (Appendix C, Photo 15). Evidence of hydric soils includes low chroma matrix colors (10YR 3/2 and 10YR 5/2) and common high chroma mottles (10YR 5/6 at a depth of 12 inches or more). Primary indicators of wetland hydrology, including saturated soils in the upper 12 inches and watermarks on the vegetation were observed in this wetland. Oxidized root channels in the upper 12 inches of soil, water-stained leaves and small hummocks were also observed. This wetland is part of the stormwater management system, and is therefore hydrologically connected to off-Site wetlands and streams via a series of culverts.

Uplands adjacent to Wetland N are significantly disturbed and consist of a facility access road and regularly mowed lawns. The upland vegetative community is dominated by fescues, perennial rye grass and white clover. There was no evidence of wetland hydrology in these upland areas, and the 10YR 3/3 and 10YR 4/4 soils did not display hydric soil characteristics.

Wetland O

Wetland O is located approximately 300 feet north of Wetland N near the western boundary of Area 4 (Figure 8, Sheets 8 and 9). The delineated portion of Wetland O totals only 0.06

acre, but the wetland community extends beyond the delineated portion in Area 4. The delineated area of Wetland O is split by a facility access road but is hydrologically linked via a culvert. This wetland is characteristic of a drainage ditch with a forested/scrub-shrub wetland community along its banks (Appendix C, Photo 16). At the time of investigation, the drainage ditch west of the access road had an average width of approximately eight to ten feet and a depth of water in the range of 3 - 5 inches. The vegetation within Wetland O is dominated by red maple, green ash and cottonwood in the overstory, with honeysuckle and wild grape in the shrub layer (on the banks of the drainage channel). Evidence of hydric soils includes low chroma matrix colors (10YR 3/2 and 10YR 5/2), common high chroma mottles (10YR 5/6 and 10YR 5/8), and concretions. Primary indicators of wetland hydrology, including saturated soils in the upper 12 inches and inundation (up to approximately one inch deep) were observed in this wetland. Oxidized root channels in the upper 12 inches of soil, water-stained leaves and buttressed tree trunks were also observed. Wetland O is part of the stormwater management system, and is therefore hydrologically connected to off-Site wetlands and streams via a series of culverts.

Adjacent uplands consist of a facility access road between the two delineated areas of Wetland O, as well as an upland forested/scrub-shrub community and a maintained lawn area. Vegetation at the upland data sample point for Wetland O (wetland flag O-16) was dominated by sugar maple and black cherry trees, buckthorn and honeysuckle shrubs, and Canada goldenrod and perennial rye grass in the herbaceous layer. There was no evidence of wetland hydrology in these upland areas, and the 10YR 3/3 and 10YR 4/4 soils did not display hydric characteristics.

Wetland P

Wetland P is located in the central portion of Area 4, immediately north and east of Fac Pond 3 (Figure 8, Sheets 8 and 9). Wetland P contains characteristics of both forested and emergent wetland communities and has an area of 0.42 acre (Appendix C, Photo 17). The eastern portion of Wetland P (adjacent to a facility access road and oriented in a north-south direction) is a roadside drainage channel with an emergent wetland community. The wetland is dominated by green ash and red maple trees in the forested portions, and common reed and sedges in the emergent areas. Evidence of hydric soils includes low chroma matrix colors (10YR 3/2 and 10YR 5/2) with common high chroma mottles (10YR 5/6). Evidence of wetland hydrology in the wetland at the time of investigation included inundation to a depth of approximately 1-inch deep, saturated soils and oxidized root channels in the upper 12 inches, water-stained leaves, and a slight indication of buttressing in tree trunks. Some areas of Wetland P contained pockets of standing water in excess of 6 inches deep. Field

observations by EDR wetland biologists suggest that this wetland is an isolated depressional area that receives hydrologic input via sheet flow from the surrounding uplands, and lacks any apparent hydrologic outlets (culverts or drainages).

Adjacent uplands are significantly disturbed and consist of either facility access roads or regularly mowed lawn areas. The vegetative community is dominated by perennial rye grass and white clover. Although there are some clay soils in the adjacent uplands that display low chroma matrix colors (10YR 5/2) at a depth greater than 10 inches, there was no evidence of wetland hydrology in these areas.

Wetland Q

Located approximately 25 feet south of the southern terminus of Wetland P (Figure 8, Sheets 8 and 9), Wetland Q is 0.07 acre in size and characteristic of an emergent/forested wetland community. Woody vegetation in Wetland Q is dominated by red maple and green ash trees, silky dogwood shrubs, while sedges, water plantain, and green algae dominate the herbaceous layer (Appendix C, Photo 18). Evidence of hydric soils includes low chroma matrix colors (10YR 3/2 and 10YR 5/2) with common high chroma mottles (10YR 5/6). Evidence of wetland hydrology included inundation to a depth of approximately 2 inches, saturated soils in the upper 12 inches, water-stained leaves and buttressed tree trunks. At the time of investigation there were some areas of standing water with depths greater than 6 inches deep. Field observations by EDR wetland biologists suggest that this wetland is isolated and does not display a significant nexus to any other wetlands. It appears as though Wetland Q was at one time hydrologically linked to Wetland P via a culvert or sheet flow. However, at this time it appears that a functional connection between these two wetlands no longer exists. While there may be a culvert linking the two wetlands, if it is present, it has been completely buried by sedimentation in recent years. Therefore, as conditions currently exist, Wetland Q appears to be hydrologically isolated from other wetlands.

Uplands adjacent to Wetland Q are significantly disturbed and consist of a facility access road and regularly mowed lawns. The upland vegetative community is dominated by fescues and perennial rye grass. There was no evidence of wetland hydrology in these upland areas, and the 10YR 3/3 and 10YR 4/4 soils did not display hydric characteristics.

Table 2. Delineated Wetlands and Streams

EDR Wetland/Stream ID	Acres Delin- eated	Acres Impacted by RMU-2 Project	Community Type ¹	Federal Jurisdiction (Yes/No) ²	Acres with Federal Jurisdiction ²	Acres with Federal Jurisdiction Impacted by RMU-2 ²	State Jurisdiction (Yes/No)	Stream Name	Stream Class
А	0.23	0.00	EM/SS	Yes	0.23	0.00	No		
В	0.11	0.00	EM	No	0.00	0.00	No		
С	0.13	0.00	EM/SS/FO	Yes	0.13	0.00	No		
D	0.05	0.00	EM	Yes	0.05	0.00	No		
G	0.41	0.41	EM/Drainage	Yes	0.41	0.41	No		
Н	0.04	0.04	EM	No	0.00	0.00	No		
l	0.10	0.10	EM/Drainage	Yes	0.10	0.10	No		
J	0.92	0.80	EM/FO/ Drainage	Yes	0.92	0.80	No	Un- named	С
K	0.07	0.05	EM	No	0.00	0.00	No		
L	0.06	0.06	EM	No	0.00	0.00	No		
M	0.54	0.54	EM/SS/FO	No	0.00	0.00	No		
N	0.04	0.02	EM	Yes	0.04	0.02	No		
0	0.06	0.03	SS/FO	Yes	0.06	0.03	No		
Р	0.42	0.42	EM	No	0.00	0.00	No		
Q	0.07	0.07	EM	No	0.00	0.00	No		
Total Acres	3.25	2.54			1.94	1.36			·

Wetland community types noted are based upon the Cowardin et al classification system: EM = emergent marsh; SS = scrub shrub; FO = forested.

Preliminary determinations by EDR. Final jurisdictional determinations to be provided by USACE.

5.0 CONCLUSIONS

The four study areas investigated by EDR within the proposed RMU-2 landfill expansion area at the CWM Model City facility are all significantly disturbed areas within a working solid waste management facility. EDR delineated fifteen wetlands within the four areas of investigation that may be considered jurisdictional waters of the U.S. These wetlands were identified based on the presence of hydrophytic vegetation, hydric soils, and wetland hydrology. The delineated areas primarily exhibited an emergent covertype dominated by common reed and sedges, as well as a scrub-shrub cover type dominated by silky dogwood and willows. Only three wetlands identified by EDR personnel included forested covertypes. The wetlands were all characterized by hydric soils and clear indicators of wetland hydrology at the time of Site investigation. Eight of these areas are associated with stormwater management system (SPDES Permit # NY 0072061) and do not offer the structural or functional attributes inherent to natural waters of the U.S.

Even in those areas where the land appears relatively undisturbed, the natural surface water hydrology and/or vegetation have been altered to such an extent that limited wetland functions and values have been retained. Wetlands on the Site do not appear to perform many of the typical functions associated with high quality wetlands. They do not contribute significantly to groundwater recharge and discharge, habitat for waterfowl, or flood abatement. These wetlands also do not provide any opportunities for recreation or education, have no economic value, and do not serve any functions in shoreline erosion control. The only possible functions the on-Site wetlands provide are minimal stormwater detention, some water quality improvement and seasonal breeding habitat for certain amphibians that may occupy the Site.

The three Fac Ponds that occur in Areas 3 and 4 are not considered to be jurisdictional waters of the U.S. No data was collected for these areas, as they are considered engineered components of the working CWM solid waste facility, and not jurisdictional waters of the U.S. Wetland B is a man made stormwater management pond and will therefore not be considered jurisdictional. In addition, EDR's analysis suggests that wetlands H, K, L, M, P and Q will likely not be considered jurisdictional by the USACE due to their lack of connection or adjacency to jurisdictional waters and/or the lack of a "significant nexus" between these wetlands and adjacent wetlands/waters. In several instances, this lack of connectivity resulted from culverts non-functional due to grade issues or burial by sediment. In other cases the topography of the adjacent uplands slopes upward on all sides of the wetland, and provides no obvious outlet that would allow hydrologic connectivity with

other streams or wetlands. As a result, while there may at one time have been a hydrological connection between these on-Site wetlands and other wetlands/waters, it is the opinion of EDR wetland biologists that the connection or significant nexus no longer exists. The remaining delineated wetlands (A, C, D, G, I, J, N and O) appear to have a clear hydrologic connection with off-Site wetlands/waters that ultimately drain to Four Mile Creek and Lake Ontario, and are therefore likely to be under federal jurisdiction pursuant to Section 404 of the Clean Water Act. However, a final jurisdictional determination must be made by USACE representatives.

6.0 REFERENCES

Cowardin, L.M., V. Carter, F.C. Goblet and E.T. LaRoae. 1979. *Classification of Wetlands and Deepwater Habitats of the United States.* U.S. Fish and Wildlife Service, OBS-79/31, Washington, D.C.

Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1. U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

Gleason, H.A. and A. Cronquist. 1991. *Manual of Vascular Plants of Northeastern United States and Adjacent Canada*. D. Van Nostrand Co., New York, NY.

Hino, J. 2009. [Personal Correspondence]. Electronic mail correspondence with Brian Schwabenbauer, May 20, 2009.

Kollmorgen Corporation. 1988. *Munsell Soil Color Charts*. Macbeth Division of Kollmorgen Corporation, Baltimore, MD.

National Weather Service. 2009. *National Weather Service*. Available at: http://www.nws.noaa.gov/ (Accessed May 15, 2009).

Natural Resources Conservation Service (NRCS). 1972. Soil Survey of Niagara County, New York. U.S. Department of Agriculture in Cooperation with Cornell University Agricultural Experiment Station.

NRCS. 1989. New York Soils with Potential Hydric Inclusions. U.S. Department of Agriculture in Cooperation with National Technical Committee for Hydric Soils, Washington, D.C.

NRCS. 2008. *Hydric Soils of the State of New York*. U.S. Department of Agriculture in Cooperation with National Technical Committee for Hydric Soils, Washington, D.C.

Reed, P.B., Jr. 1988. *National List of Plant Species That Occur in Wetlands: 1998 New York.* U.S. Fish and Wildlife Service. St. Petersburg, FL.

United States Environmental Protection Agency (EPA). 2001. Interagency Memorandum from Gary S. Guzy (General Counsel for the U.S. Environmental Protection Agency) and Robert M. Anderson (Chief Counsel for the U.S. Army Corps of Engineers). Memorandum Subject: Supreme Court Ruling Concerning CWA Jurisdiction over Isolated Waters.

APPENDIX A

Figures

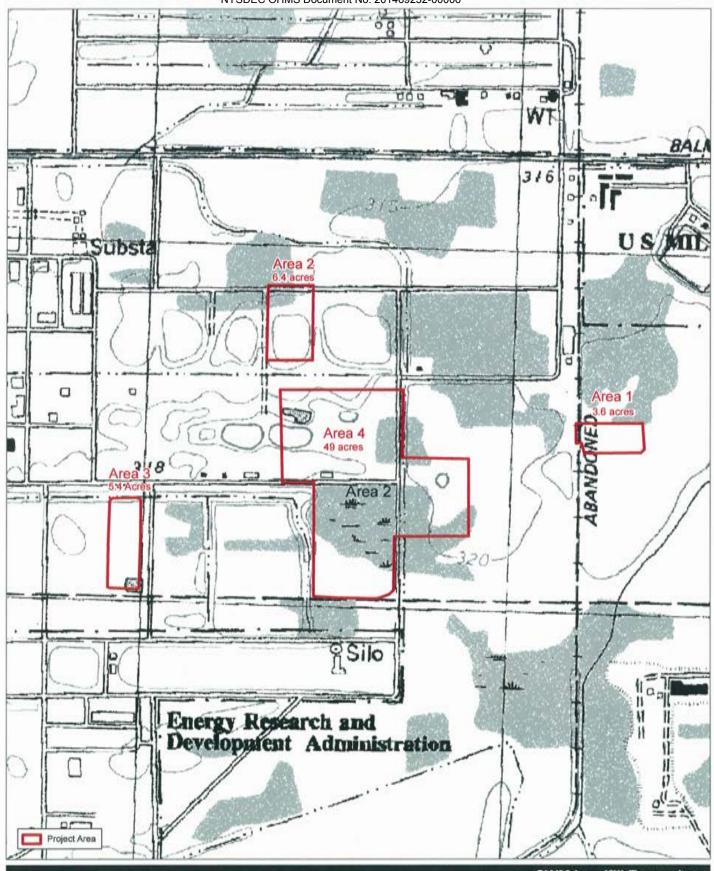


CWM Landfill Expansion

Town of Porter - Niagara County, New York Wetland Delineation Report Figure 1: Regional Project Location







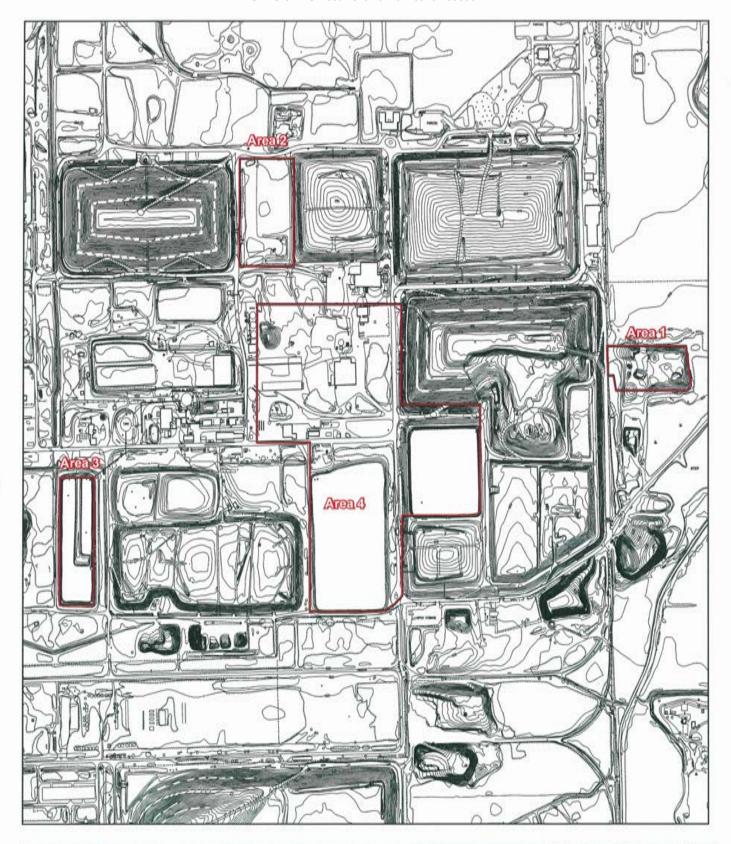


Notes: Base Map: USGS 1:24000 Fort Niagara, Lewiston, Ransomville, Sixmile Creek Quadrangles.

Approximate Center Point of Site: Latitude: -78.976265 Longitude: 43.223311

CWM Landfill Expansion

Town of Porter - Niagara County, New York Wetland Delineation Report Figure 2: Project Area



CWM Landfill Expansion

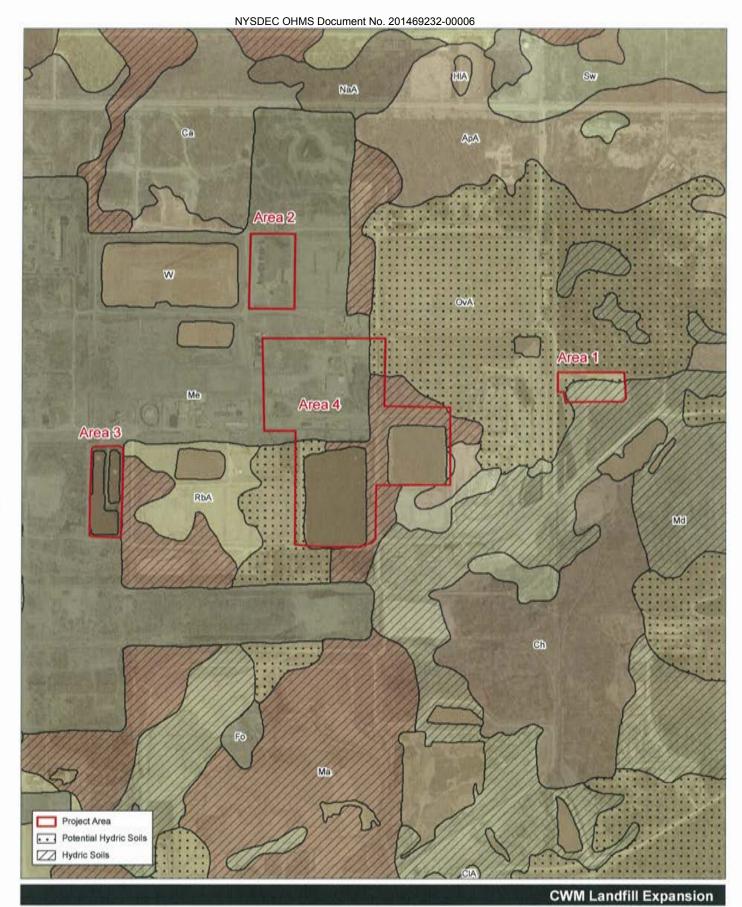
Town of Porter - Niagara County, New York

Wetland Delineation Report Figure 3: Topographic Mapping





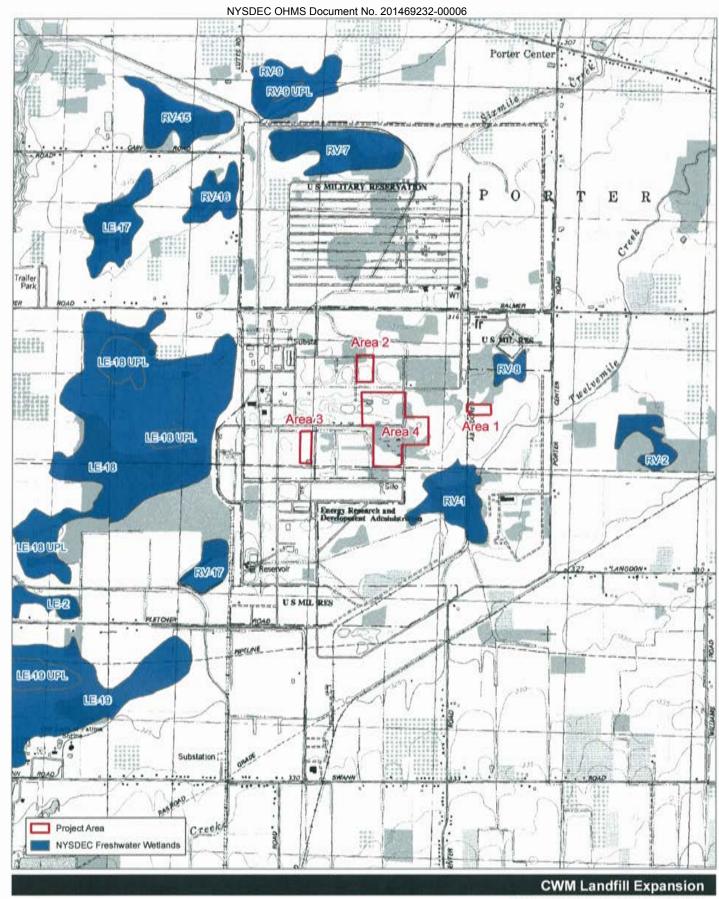






Notes: Base Map: DOQQ Orthophotography, Black and White, 2 ft. Resolution, Year 2005. Data Source: USDA NRCS SSURGO Soils, 2006.

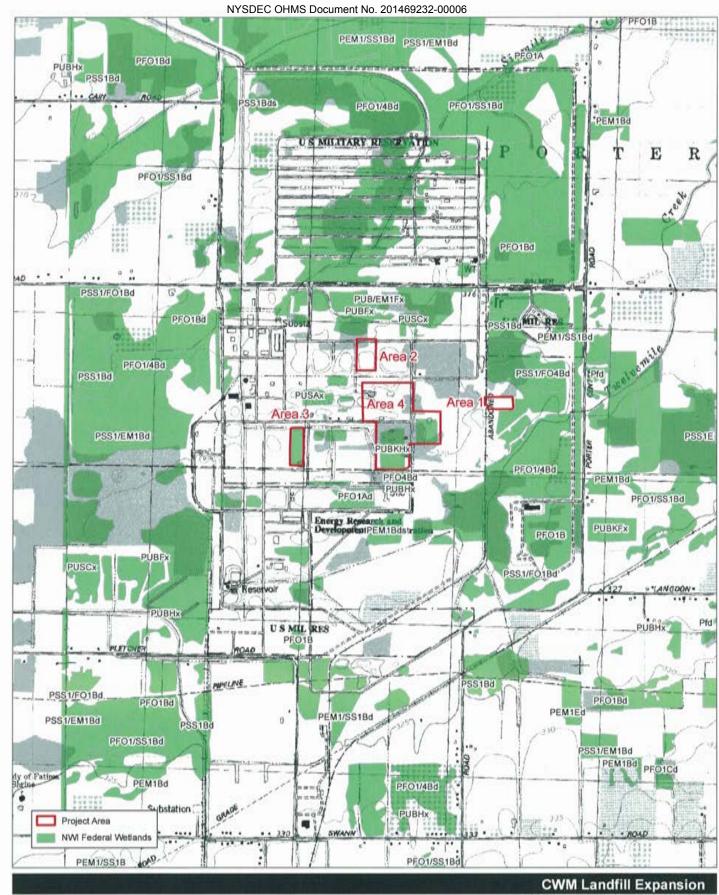
Town of Porter - Niagara County, New York Wetland Delineation Report Figure 4: Site Soils





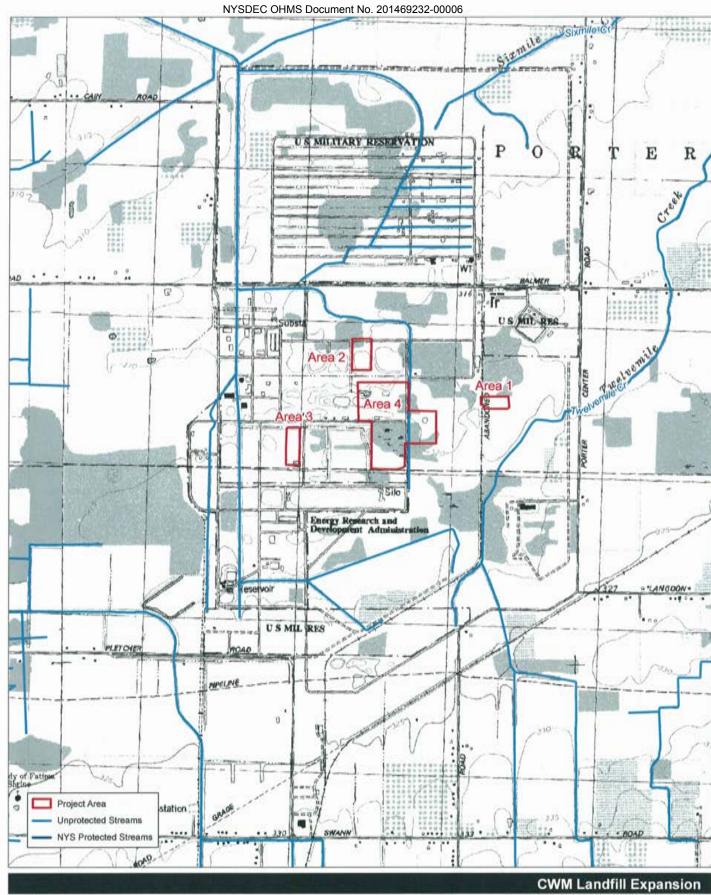
Base Map: USGS 1:24000 Fort Niagara, Lewiston, Ransomville, Sixmile Creek Quadrangles. Data Source: NYSDEC Freshwater Wetlands Data

Town of Porter - Niagara County, New York Wetland Delineation Report Figure 5: NYSDEC Freshwater Wetlands





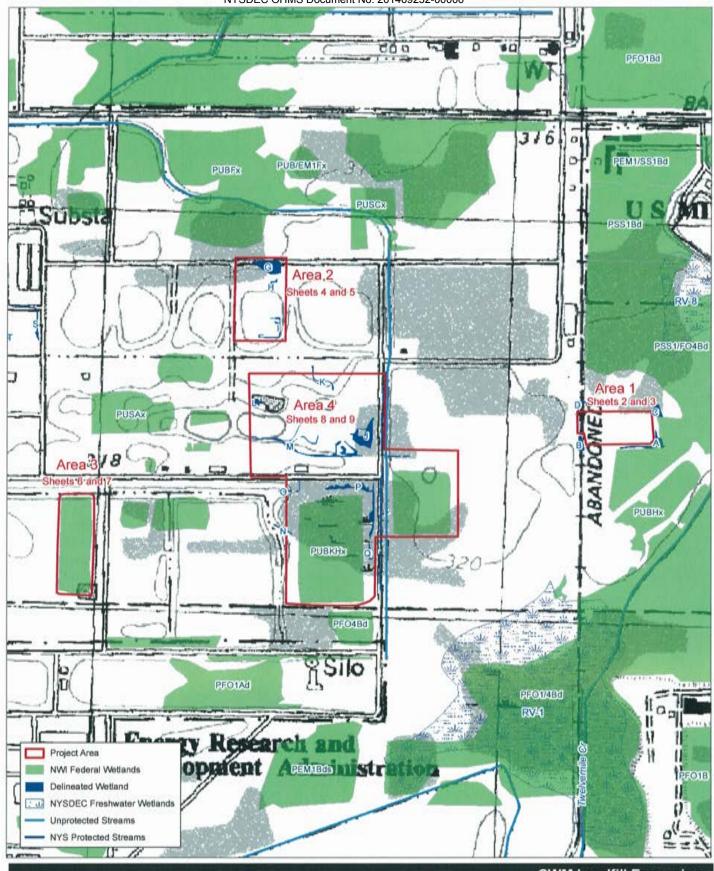
Notes: Base Map: USGS 1:24000 Fort Niagara, Lewiston, Ransomville, Sixmile Creek Quadrangles. Data Source: NWI Federal Wetland Survey Town of Porter - Niagara County, New York Wetland Delineation Report Figure 6: NWI Federal Wetlands



Town of Porter - Niagara County, New York DEDR

Base Map: USGS 1:24000 Fort Niagara, Lewiston, Ransomville, Sixmite Creek Quadrangles Data Source: NYSDEC Stream Classification Data

Wetland Delineation Report Figure 7: Surface Waters



EDR

Base Map: USGS 1:24000 Fort Niagara, Lewiston, Ransomville, Sixmile Creek Quadrangles Deta Source

1. EDR Delineated Wetlands

2. NYSDEC Stream Classification Data

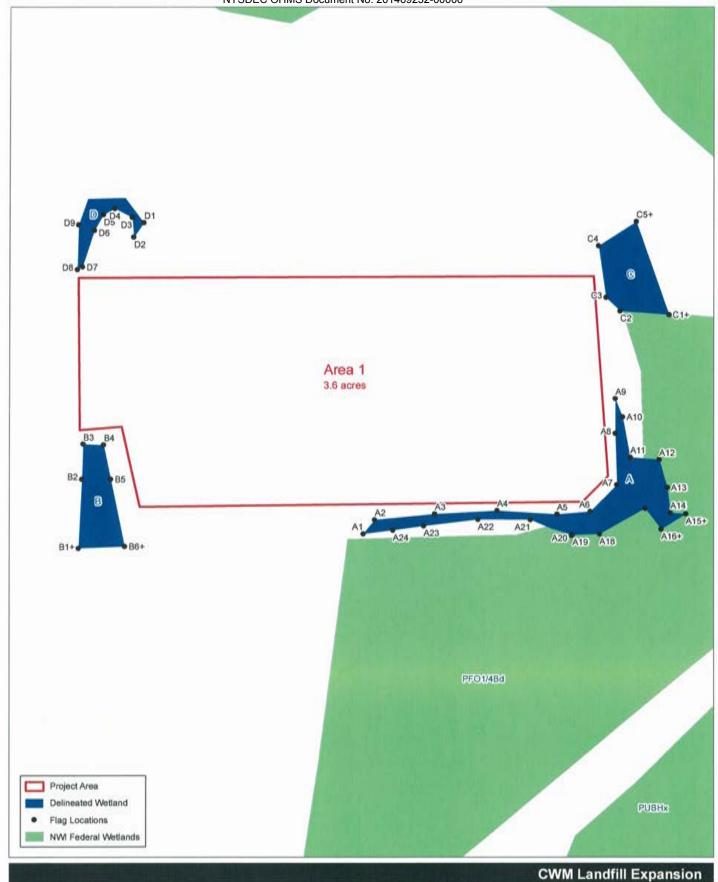
3. NYSDEC Freshwater Wetland Data

4. NW Federal Wetland Survey,
Ransomville Quadrangle.

CWM Landfill Expansion

Town of Porter - Niagara County, New York Wetland Delineation Report Figure 8: Delineated Wetlands

Sheet 1 of 9



EDR 25 50 100 150 200 Feet

Notes: Data Source 1. EDR Delineated Wetlands 2. NWI Federal Wetland Survey, Ransomville Quadrangle. Town of Porter - Niagara County, New York
Wetland Delineation Report
Figure 8: Delineated Wetlands
Sheet 2 of 9

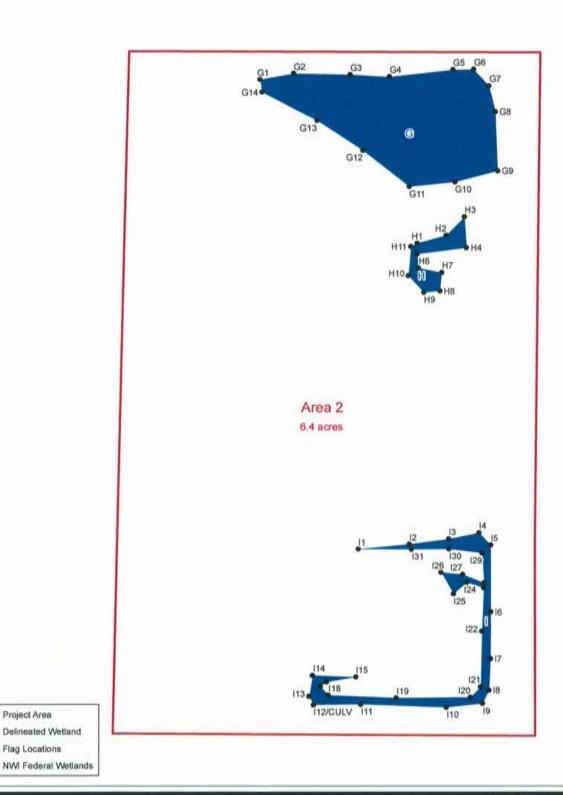




Notes:
Data Source
Base Map: DOQQ Orthophotography,
Black and White, 2 ft. resolution, Year 2005.
1. EDR Delineated Weltlands
2. NWI Federal Weltland Survey,
Ransomville Quadrangle,

Town of Porter - Niagara County, New York
Wetland Delineation Report
Figure 8: Delineated Wetlands
Sheet 3 of 9





CWM Landfill Expansion



Project Area **Delineated Wetland** Flag Locations

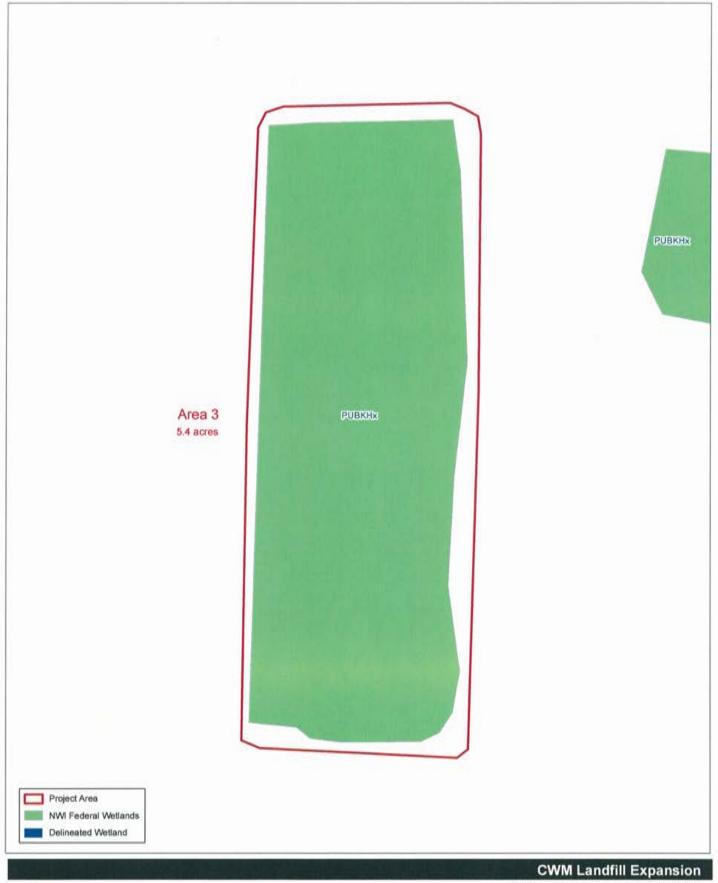
Notes: Data Source 1. EDR Delineated Wetlands 2. NWI Federal Wetland Survey, Ransomville Quadrangle.

Town of Porter - Niagara County, New York Wetland Delineation Report Figure 8: Delineated Wetlands Sheet 4 of 9



Notes:
Data Source
Base Map: DOQQ Orthophotography,
Black and White, 2 ft. resolution, Year 2005.
1. EOR Delineated Wetlands
2. NWI Federal Wetland Survey,
Ransomville Quadrangle.

Town of Porter - Niagara County, New York Wetland Delineation Report Figure 8: Delineated Wetlands Sheet 5 of 9





Notes: Data Source 1. EDR Delineated Wetlands 2. NWI Federal Wetland Survey, Ransonville Quadrangle. Town of Porter - Niagara County, New York
Wetland Delineation Report
Figure 8: Delineated Wetlands
Sheet 6 of 9

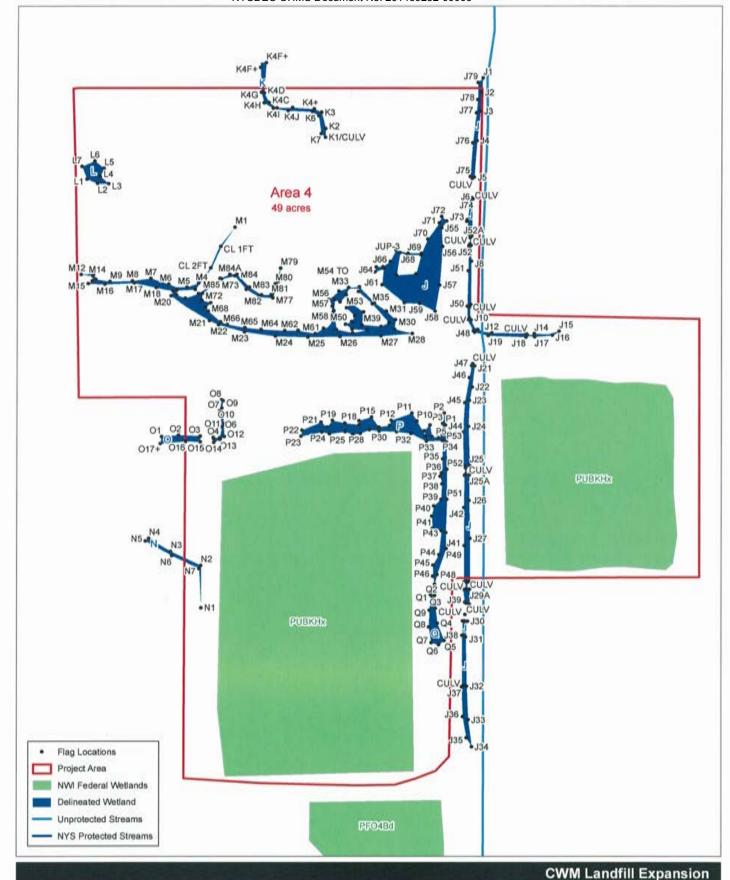




Notes: Data Source Base Map: DOQQ Orthophotography, Black and White, 2 ft. resolution, Year 2005. 1. EDR Delineated Wetlands 2. NWI Federal Wetland Survey, Ransomville Quadrangle.

CWM Landfill Expansion

Town of Porter - Niagara County, New York
Wetland Delineation Report
Figure 8: Delineated Wetlands
Sheet 7 of 9





Notes: Data Source 1. EDR Delineated Wellands 2. NWI Federal Welland Survey, Ransomville Quadrangle. 3. NYSDEC Stream Classification Data

Town of Porter - Niagara County, New York
Wetland Delineation Report
Figure 8: Delineated Wetlands
Sheet 8 of 9





Notes:
Data Source
Base Map: DOQQ Orthophotography,
Black and White, 2 ft. resolution, Year 2005.
1. EDR Delineated Wetlands
2. NW Federal Wetland Survey,
Ransomville Quadrangle,
3. NYSDEC Stream Classification Data

Town of Porter - Niagara County, New York
Wetland Delineation Report
Figure 8: Delineated Wetlands
Sheet 9 of 9

APPENDIX B

Routine Wetland Determination Forms

217 Montgomery Street, Suite 1000	DATA FORM	274 North Goodman Street
Syracuse, New York 13202	ROUTINE WETLAND DETERMINATION	Rochester, New York 14607
	1987 COE Wetlands Dolineation Manual	
Project No: 09-022 Applicant:	CWM Date:	4/2/09
110jest 1101 15500000_	, " " " " " " " " " " " " " " " " " " "	Lewiston
\$	Town:	
Investigator: Trembath, Schwabenbauer	County:	<u>Niagera</u>
	State:	NY
Do normal circumstances exist on site?	(Yes) No Community Type PE 195	\$
Is the site significantly disturbed?	Nearest Flag To Data Point:	
Is the area a potential Problem Area?	Yes(Np) Data Point ID: (i.e. 2W@Wetland G) W @	wet. A
sons	1. (1.1)	
Series and Phase:	win sit toan (md) Drainage Class:	WD MWD SPD PD VPD
Subgroup: Mesic Moll	$\mathcal{L} = 0$	N
Subgroup:	Confirm Mapped Type:	AENO.
Depth Horizon Matrix color	Mottle color/abundance Texture, Structure, Other	
02 0 104672	Nine lingu	ic layer
2-12 4 10483/2	1018 /c Gen 76" Clan	
	10183/6, few/6 (104	——————————————————————————————————————
12" B 10 1 12 1	104R /L. Common Clay	
Histisols	I inted an I good Unute's Coile	Y fine
11	Listed on Local Hydric Soils Listed as Potential for Hydri	
# · · · · · · · · · · · · · · · · · ·	king in Sandy Soils Other (Explain in Remarks)	·
Reducing ConditionsGleyed or Lov	v Chroma color Aquic Moisture Regime	
	√	_
Landscape position: concaveflat		slope:
<u></u>		
Remarks: A f	*	
- Adjacent to	moved upland area	
HYDROLOGY		
Recorded Data (Describe in Remarks		
No Recorded Data Av		thes.
Aerial Photographs	John Saturated.	
	Depth to Free Water 2-2 inches.	
	Depth to Saturated Soils inches.	
Weiland Hydrology Indicators:	110107	
Primary Indicators	Secondary Indicators (2 or more required)	
Inundated	Oxidized Root Channels in upper 12 inches	
Saturated in upper 12 i		•
Water Marks	Local Soil Survey	
Drift Lines	Morphological Plant Adaptations	
Sediment Deposits	Other (Explain in Remarks)	
Drainage Patterns in W	etland	

Remarks:

Hummocky

s:\edr office files\forms\Data Form Routine Wetland Determination.xls

Project Number: 09-022 Applicant: CWM	Date: 4/28/09 Plot ID Number: / W @ Wef. A
Dominant Plant Species: Stratum: (circle one)	Indicator: % Cover: FACW 40 FACW 30 FACW 50 FAC 40 FACW 081 10
11	recent of Dominant Species OBL, FACW_~ 85
50/20 Rule Applied? Yes No Remarks:	**************************************
WETLAND DETERMINATION Hydrophytic Vegetation Present? Kes or No Hydroclogy Present? Vestor No Hydroclogic Connectivity to Off-site Wetlands? Yes or No Is this Sampling Point Within Hydrologic Connectivity to Off-site Wetlands? Yes or No Is this Wetland Potentially Is Remarks: Inter draingege adjacent to disturbed a forested area (mixed Pro/NDF).	olated? Yes of No.

Environmental Design & Research

s:\edr office files\forms\Data Form Routine Wetland Determination.xls

217 Montgo	mery Street, St	nite 1000		DATA FORM		274 North Goodman Street
Syracuse, Ne	w York 1320	2	ROU	TINE WETLAND DETERMIN	ATION	Rochester, New York 14607
				1987 COE Wetlands Delineation Manual		
Desired No.	AA A22	4 mlinante	/TTE/16.4		Data	4/28/09
Project No:	09-022	Applicant:	UWM		Date:	
					Town:	Lewiston
Investigator.	Trembath	Schwabenbauer			County:	Niagara
Investigation.	II Catoata	Den Habenback			_	
					State:	NÝ NÝ
			$\overline{}$		VII (!)	17
Do normal ci	rcumstances ex	cist on site?	(Yes) No	Community Ty	pe <u>Old hie</u>	ld/maintained lawn
To the cite cion	nificantly distu	rehault)	(Yes)No	Nearest Flag To Data Poi	4	1
13 tile site sign	mincanny distr	a occur	(15)	Neptest Fing To Data For		2 4
is the area a p	otential Proble	an Area?	Yes(No)	Data Point ID: (i.e. 2W@Wetland	G) / 4 /D	wet A

SOILS				•		
6		M . D.	-11:	loaguatts		****
Series and Pl	rese:	1200	-1.6	sitt toase (vee)	Drainage Class:	WD MWD SPD PD VPD
Sabgroup:	mesi	a Malli	c. End	logarette	Confirm Mapped Types	By Disturbush
Sabgroup.					_ Continue was please 1 yes	(10) IN
Depth	Horizon	Matrix color		Mottle color/abundance	Texture, Structure, Other	
1 1 7	1 1	10/R 3/3		None	CUL	ate I and
<u> </u>	H	10/K /3		70000	3/18/	clay / Gravel
1 7+	ß	10/R4/3		None		/'
i <u>'</u> -	~	10/12/3		10014	(lay	· · · · · · · · · · · · · · · · · · ·
į	1				/	
·	<u> </u>	<u>l</u>			<u> </u>	
Hydric Soil Ir	dicators					
Histisols	t-restors,	Concretions			Listed on Local Utyleia Caile	. T ins
, 		-			Listed on Local Hydric Soils	
Histic Ep	•			ce Layer of Sandy Soils	_ Listed as Potential for Hydri	· ·
Sufidic O			aking in Sandy		_ Other (Explain in Remarks)	
Keducing	Conditions	Gleyed or La	ow Chroma cole	or	_ Aquic Moisture Regime	
]				-		
Landscape po	sition:	concave_		convexslopin	gApproximate	slope:
		flat_	X	undulating		
· 180001-00-1910-00-1910-00-1					***************************************	***************************************
Remarks:	1		1. 1	/		
10.000	/1/	rea regu	larly	moned		
		/	/			
	111	hudie	Sail	mowed indicators not	red.	
	700	regarie	3-77	, , , , , , , , , , , , , , , , , , , ,	•	
HYDROLOGY						
<i>X</i> 1	Recorded Date	(Describe in Remark	cs)	Field Observations		
		No Recorded Data A	vailable	Ground Surfa	ce Imundatedin	ches.
-		Stream, Lake or Tide	Gauge	Soil Saturated	i.	
-	X	Aerial Photographs	Ū			
-				Depth to Free Water	inches,	
				•		
				Depth to Saturated Soils	inches.	
Wetland Hydro	ology Indicate	rs:				
	rimary Indica			Secondary Indicators (2 or me	ore required)	
•	-	Inundated		•	t Channels in upper 12 inches	
			· inalaa			
		Saturated in upper 12	inches.	Water-Stained		
		Water Marks		Local Soil Sur	-	i
		Drift Lines			l Plant Adaptations	
		Sediment Deposits		Other (Explain	ı in Remarks)	
	;	Drainage Patterns in '	Wetland			
	***********		84 (0 8 8 8 8 0 0 0 1 8 8 1 9 1 8 4 1 8 4 1 8 4 1 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			
Remarks:			1 /	, , ,		And it sources of the same of
,	110 0	vetland	hydro	logy noted.		i
•						

			411-110
Project Number: 09-022		Date:	9/18/09
Applicant: CWM		Plot ID Number:	/ so (wet A
VEGETATION			
Dominant Plant Species:	Stratum: (circle one)	Indicator:	% Cover:
1 fescues	H S/S T V	FACIA	25
2 blue grass	(H) s/s t v	FACU	50
3 white clover	H) S/S T V	FACU-	/ ບ
4 dandelion	H s/s T V	FACU-	5
s perennial ryc grass	H) s/s T V	FACU-	10
6	H S/S T V		<u>,</u>
7	H S/S T V		***************************************
8	H S/S T V		
9	H S/S T V		
10	H S/S T V		
11	H S/S T V		
12	H S/S T V		
13	H S/S T V		
14	H S/S T V		
15	H S/S T V		
16	H S/S T V		<u></u>
			
Percent of Dominant Species OBL, FACW, FAC	•	of Dominant Species O	BL, FACW_O_
50/20 Rule Ap	plied? Yes No		
Remarks;		***************************************	
WETLAND DETERMINATION			
Hydrophytic Vegetation Present? Yes of No	Hydric Soils Present?	Yes or (No	
Wetland Hydrology Present? Yes of No	Is this Sampling Point Within a V		s or No
Hydrologic Connectivity to Off-site Wetlands? Yes of No Remarks:	Is this Wetland Potentially Isolate	d? Yes Photo Reference Number	or No (U/A)
* In @ wet A is a with wetland B.	shared upland	somple p	% int
with wetland B .			

Environmental Design & Research 217 Montgomery Street, Suite 1000 DATA FORM 274 North Goodman Street Syracuse New York 13202 ROUTINE WETLAND DETERMINATION Rochester, New York 14607 1987 COE Wetlands Delineation Manual 09-022 Applicant: CWM Date: Lewiston Town: Nicsare Investigator. Trembath, Schwabenhauer County: State: Pem Do normal circumstances exist on site? Community Type Is the site significantly disturbed? Nearest Flag To Data Point S CO Is the area a potential Problem Area? Data Point ID: (i.e. 2W@Wetland G) SOILS Series and Phase: Drainage Class: Confirm Mapped Type: Yes No Mottle color/abundance Texture, Structure, Other None Hydric Soil Indicators: Concretions Histisols Listed on Local Hydric Soils List Listed as Potential for Hydric Inclusions Only Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Sufidic Odo. Organic Streaking in Sandy Soils Other (Explain in Remarks) Reducing Conditions _Gleyed or Low Chroma color Aquig Moisture Regime Landscape position: Approximate slope: sloping undulating flat Remarks: HYDROLOGY Field Observations Recorded Data (Describe in Remarks) No Recorded Data Available Ground Surface Inundate Stream, Lake or Tide Gauge Soil Saturated. Acrial Photographs Depth to Free Water_ Wetland Hydrology Indicators: Primary Indicators Secondary Indicators (2 or more required) inundated Oxidized Root Channels in upper 12 inches Saturated in upper 12 inches. Water-Stained leaves

Local Soil Survey

Morphological Plant Adaptations

Other (Explain in Remarks)

Remarks: Hummacku

s:\edr office files\forms\Data Form Routine Wetland Determination.xls

Drainage Patterns in Wetland

Water Marks

Drift Lines Sediment Deposits

Project Number: 09-022 Applicant: CWM		Date:Plot ID Number:	4/28/09 [w@wet.B
VEGETATION			
Dominant Plant Species:	Stratum: (circle one)	Indicator:	% Cover:
1 hragmites	⊕ s/s ⊤ v	FACW	80
2 Sedges	∕B) s/s τ v	EACW/OBL	10
3 soft rush	N S/S T V	FACW+	10
4	H S/S T V		· · · · · · · · · · · · · · · · · · ·
5	H S/S T V	-	
6	H S/S T V	-	
7	H S/S T V		······································
8	H S/S T V		
9	H S/S T V		
10	H S/S T V		
11	H S/S T V		
12	H S/S T V		,
13	H S/S T V	•	
14	H S/S T V		•
15	HS/STV		
16	H S/S T V		
Percent of Dominant Species OBL, FACW, FAC 100 50/20 Rule		of Dominant Species OB	e, facw <u>/0</u> 0
Remarks:			
WETLAND DETERMINATION		·	
Hydrophytic Vegetation Present? Yes or No	Hydric Soils Present?	e or No	
Wetland Hydrology Present? Yes or No	Is this Sampling Point Within a W	/etland? (Yes	Òr No
Hydrologic Connectivity to Off-site Wetlands? Yesor No	Is this Wetland Potentially Isolate	# 1-4 - # 1-4 - # 1-4 - # 1-4 - # 1-4 - # 1-4 - # 1-4 - # 1-4 - # 1-4 - # 1-4 - # 1-4 - # 1-4 - # 1-4 - # 1-4 -	(No)
Remarks: Man-made stormwater (<6") showing signification Open water component	retention area. Frant wet veg the in this area.	hoto Reference Number: Very shallow roughout. N	s water to deeper,

Environmental Design & Research 217 Montgomery Street, Suite 1000

274 North Goodman Street

Syracuse, New York 13202

DATA FORM ROUTINE WETLAND DETERMINATION

1987 COE Wetlands Defineation Manual	
Project No: 09-022 Applicant: CWM	Date: 4/28/89
	Town: Lewiston
Investigator: Trembath, Schwabenbauer	County: Wingsire
	State: NY
Do normal circumstances exist on site? Yes No Community Type	PEH PSS PFO
Is the site significantly disturbed? No Nearest Flag To Data Point:_	<u> </u>
Is the area a potential Problem Area? Ye (No) Data Point ID: (i.e. 2W@Wetland G)_	IN a wet C
sons0 11-1	
	Drainage Class: WD MWD SPD PD VPD
subgroup: misic Airic Endoagouts	Confirm Mapped Type: Yes No Distributed
6	Fexture, Structure, Other
0-2 0 1042 12 None	organic layer
2-12 A 10423/2 10485/4 Few 74	Clau
	25.
TO TO TO TO TO TOWN OF T	Clay
Hydric Soli Indicators: Histisols Concretions Li	isted on Local Hydric Soils List
<u></u>	asted on Locar riyunc sons List isted as Potential for Hydric Inclusions Unity
Suffidic OdorOrganic Streaking in Sandy SoilsOd	Other (Explain in Remarks)
Reducing ConditionsGleyed or Low Chroma color Ar	quic Moisture Regime
Landscape position: concave convex sloping	Approximate slope:
flat undulating X	
	1 1
. Remarks: _ Adjacent to maintained/mowed up)	land ares
* · · · · · · · · · · · · · · · · · · ·	
HYDROLOGY	
Recorded Data (Describe in Remarks) Field Observations	
No Recorded Data Available Ground Surface In	nundatedinches.
Stream, Lake or Tide Gauge Soil Saturated.	
Aerial Photographs Depth to Free Water 4-5 in	nehee
Depth to Saturated Soils ~ [inches.
Wetland Hydrology Indicators:	
reining Hydrology Indicators: Primary Indicators Secondary Indicators (2 or more response)	required)
Inundated Oxidized Root Chr	nannels in upper 12 inches
Saturated in upper 12 inches Water-Stained leav	
Water Marks Local Soil Survey	
Drift Lines Morphological Pla Other (Explain in I	
One (copins in Westland	ACOUNTED TO THE PARTY OF THE PA

Remarks:	
Hummocky	
1	
s:\edr office files\forms\Data Form Routine Wetland Determination.xls	

Project Number: 09-022		Date:	4/28/09
Applicant: CWM		Plot ID Number:	IND Wet.C
VEGETATION			
Dominant Plant Species:	Stratum: (circle one)	Indicator:	% Cov a r:
1 Black willow	H S/S (T) V	FACW+.	50
2 Willow Shrubs	н (ş/s) т v	FACW	30
3 silky dogwood	H (S/S) T V	FACW	<u> </u>
4	H S/S T V		
5 Phragmites	H s/s t v	FACW	80
6 Sedge 5	S/S T V	FACUSIOBL	10
7 Solidago sp. (likely gig	. , ,	FACU	
8 8 Solvery 31-7	H S/S T V	17.00	
	H S/S T V	· · · · · · · · · · · · · · · · · · ·	
	·		
10	•		
11	H S/S T V		
12	н s/s т v		
13	H S/S T V		
14	н s/s т v		
15	H S/S T V		
16	H S/S T V		
Percent of Dominant Species OBL, FACW, FAC 100 50/20 Rul	Percent c Applied? Yes No	of Dominant Species OBL,	facw <u>(00</u>)
Remarks:			
Avaimas.			
ETLAND DETERMINATION			
Hydrophytic Vegetation Present? Yes or No	Hydric Soils Present?	esor No	j
Wetland Hydrology Present? (Xesor No	Is this Sampling Point Within a V		No
Hydrologic Connectivity to Off-site Wetlands? (Yes or No	Is this Wetland Potentially Isolate	d? Yes of	$\overline{}$
Remarks: Mixed Em/SS/FO 1	Alles I draining	hoto Reference Number:	
WHILEA EMIJOS/PO L	Deflund Graining	mix-4	Fo/55
wetland off-site.			

Environmental Design & Research 217 Montgomery Street, Suite 1000

DATA FORM

274 North Goodman Street

Syracuse, New York 13202

ROUTINE WETLAND DETERMINATION

		1987 COE Wedlands Delineation Manual		
Project No: 09-022	Applicant: CWM		Date:	4/28/09
			Town:	Lewiston
Investigator. Trembath, Sch	nwabenbauer		County:	<u>Niagara</u>
		*	State;	<u>Ny</u>
Do normal circumstances exist o	on site?	Community Type	<u>maintaine</u>	d lawn
is the site significantly disturbed	? Y _{ES} No	Nearest Flag To Data Point:	<u>C-4</u>	
Is the area a potential Problem A	rea? Yes (No.	Datz Point ID: (i.e. 2W@Wetland G)	/ u @	wet. C
SOILS	_			
Series and Phase:	Ovid 5	ilt loan	Drainage Class:	WD MWD FD PD VPD
Subgroup:	c Mollic	Endoaqualts	Confirm Mapped Type:	Ces No Disturband
		Mottle color/abundance	Texture, Structure, Other	
- V - · · · · · · · · · · · · · · · · ·	04R3/3	None	Grave/	Silt loam mix
12+ B /	0/24/3	NONE	Clay	
	Pess II Iven		. /	
Histisols Histic Epipedon Sufidic Odor Reducing Conditions Landscape position: Remarks: Are EYDROLOGY	Concretions High Org. Content in Surfa Organic Streaking in Sandy Gleyed or Low Chroma col. concave flat hydric Soil	ce Layer of Sandy Soils 1 Soils (Listed on Local Hydric Soils Listed as Potential for Hydric Other (Explain in Remarks) Aquic Moisture Regime Approximate s	Inclusions Only
Recorded Data (Des	scribe in Remarks)	Field Observations	•	,
	tecorded Data Available	Ground Surface	nundatedinch	nes.
	m, Lake or Tide Gauge al Photographs	Soil Saturated.		
		Depth to Free Wateri	nches.	·
		Depth to Saturated Soils	inches.	
Wetland Hydrology Indicators:		man for the same		
Primary Indicators Inund	lated	Secondary Indicators (2 or more Oxidized Root Cl	required) nannels in upper 12 inches	
Satur	ated in upper 12 inches.	Water-Stained les		
. —	Marks	Local Soil Survey		
Drift I Sedim	ent Deposits	Morphological Pl Other (Explain in	•	-
Drains	age Patterns în Wetland			
Remarks:	Hand hydrol	,		`

					T		//		
Project Number: 09-022						Date:	-1/2	28/07	-, .
Applicant: CWM					-	Plot ID Number	:	I we we	£ C
			-						
VEGETATION									•
Dominant Plant Species:	St	ratum:	(circle	onel		Indicator:		% Сочег.	
1 blueges so (Komtucky)	(H) _{s/s}	•	, V		FACU		80	
			_	•	_				-
2 perennial que quess	H			V	-	FACU-			-
3 Aster SD. (small white)	(H)	S/S	T	V	_	<u>rac</u>			-
4 Queen Anne's Lace	(H)) s/s	T	V		HACU		5	-
5	H	S/S	T	V					-
6	H	S/S	T	\mathbf{v}	_				
7	H	S/S	T	\mathbf{v}					
8	н	S/S	т	v					•
9	н	S/S	т	v		·			
	 H	S/S	T	v	-	·	_ -		•
10				·	_				
11	H	S/S	T	V	_				
12	Н	S/S	T	V					
13	Н	S/S	T	V		·			,
14	H	S/S	T	\mathbf{v}	_		 -		
15	H	S/S	T	\mathbf{v}					
16	H	S/S	T	\mathbf{v}					

Percent of Dominant Species OBL, FACW, FAC 5	-6 - 2 - 4 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6	*********	*********	 D	Dorcent of	Dominant Specie	e ORI FA	~w 0	***********
					r caccait of	comman speck	a ODL, I'A	- · · · · · · · · · · · · · · · · · · ·	l
50/20 Rule Ap	plied?	Yes	No						
>>>===================================	becop: 1455144455144	History				**************************************	- 194444444 194 444 4444	,perservous voris vorus un un un 1942 i	
Remarks:									ı
									ŀ
									=
WETLAND DETERMINATION									
Hydrophytic Vegetation Present? Yes or No	Hydric	Soils F	resen	t?	Yes	or Vo			
Wetland Hydrology Present? Yes or No					thin a Wet	-	Yes on No)	
Hydrologic Connectivity to Off-site Wetlands? Yes of No		_	_		Isolated?		Yes or No		
Remarks:	***************************************			HOLF44064%	***	to Reference Nur		- Carlotte American	

Environmental Design & Research

s:\edr office files\forms\Data Form Routine Wetland Determination.xls

217 Montgomery Street, Suite 1000				
Syracuse, New York 13202		E WETLAND DETERMINAT	ION	Rochester, New York 1460
		1987 COE Wetlands Delineation Manual		
Project No: <u>09-022</u> Applica	it: CWM		. Date:	4/18/09
	•	•	Town:	Lewiston
Investigator: Trembath, Schwabenbaue	r		County:	Niagara
	·		State;	NY
			······································	
Do normal circumstances exist on site?	(Yes) No	Community Type	PEM _	
Is the site significantly disturbed?	o Na	Nearest Flag To Data Point:	D-3	™
is the site significantly disturbed?	Yes No			200 -1 -5
Is the area a potential Problem Area?	Yes (No)	Data Point ID: (i.e. 2W@Wetland G)	(w O	Wet-D
OILS	À		•	
Series and Phase:	vil silt	loa	Drainage Class:	WD MWD SPDPD VPD
Subgroup: mesic f	F. C. C	relongualts o		
Subgroup: M2512 7	(AIIC =	-Xxxxx30411.3	Confirm Mapped Type:	(Yes No
Depth Horizon Matrix color	Mottl	e color/abundance Te	exture, Structure, Other	
0-3 0 109242	<u>i</u>	None	Organic	c layer
2 11 A 1: 23/a		405/ 5 37"		
3-11 A 107123/2	10	12 1/6 tem) +	Clay	
11+ B 10425/2	1~	125/4° 5/8 Common	Clay	
(C) D C D P	10	TIL / G. 10 CAMMENT:	- Clay	
Hydric Soil Indicators:			- 1	
-			• •	
HistisoIsConcretion			ted on Local Hydric Soils	
HistisoIsConcretionHigh Org_	Content in Surface Lay	yer of Sandy SoilsLis	ted as Potential for Hydri	c Inclusions Only
Histisols Concretion Histic Epipedon High Org. Sufficio Odor Organic Sci	Content in Surface Lay treaking in Sandy Soils	yer of Sandy Soils Lis s Otl	sted as Potential for Hydri her (Explain in Remarks)	c Inclusions Only
Histisols Concretion Histic Epipedon High Org. Sufficio Odor Organic Sci	Content in Surface Lay	yer of Sandy Soils Lis s Otl	ted as Potential for Hydri	c Inclusions Only
Histisols Concretion Histic Epipedon High Org. Suffidic Odor Organic St Reducing Conditions Gleyed or	Content in Surface Lag treaking in Sandy Soils Low Chroma color	yer of Sandy Soils Lis s Oil Aq	ited as Potential for Hydri her (Explain in Remarks) nic Moisture Regime	c Inclusions Only
Histisols Concretion Histic Epipedon High Org. Sufficio Odor Organic Sci	Content in Surface Lattreaking in Sandy Soils Low Chroma color	yer of Sandy Soils Lis s Otl	sted as Potential for Hydri her (Explain in Remarks)	c Inclusions Only
Histisols Concretion Histic Epipedon High Org. Suffidic Odor Organic St Reducing Conditions Gleyed or Landscape position: concave	Content in Surface Lattreaking in Sandy Soils Low Chroma color	yer of Sandy Soils Lis s Oil Aq convex sloping	ited as Potential for Hydri her (Explain in Remarks) nic Moisture Regime	c Inclusions Only
Histisols Concretion Histic Epipedon High Org. Suffidic Odor Organic St Reducing Conditions Gleyed or Landscape position: concave	Content in Surface Lattreaking in Sandy Soils Low Chroma color	yer of Sandy Soils Lis s Oil Aq convex sloping	ited as Potential for Hydri her (Explain in Remarks) nic Moisture Regime	c Inclusions Only
Histisols Concretion Histic Epipedon High Org. Suffidic Odor Organic St Reducing Conditions Gleyed or Landscape position: concave	Content in Surface Lattreaking in Sandy Soils Low Chroma color	yer of Sandy Soils Lis s Oil Aq convex sloping	ited as Potential for Hydri her (Explain in Remarks) nic Moisture Regime	c Inclusions Only
Histisols Concretion Histic Epipedon High Org. Suffidic Odor Organic St Reducing Conditions Gleyed or Landscape position: concave	Content in Surface Lattreaking in Sandy Soils Low Chroma color	yer of Sandy Soils Lis s Oil Aq convex sloping	ited as Potential for Hydri her (Explain in Remarks) nic Moisture Regime	c Inclusions Only
Histisols Concretion Histic Epipedon High Org. Suffidic Odor Organic St Reducing Conditions Gleyed or Landscape position: concave	Content in Surface Lattreaking in Sandy Soils Low Chroma color	yer of Sandy Soils Lis s Oil Aq convex sloping	ited as Potential for Hydri her (Explain in Remarks) nic Moisture Regime	c Inclusions Only
Histisols Concretion Histic Epipedon High Org. Suffdic Odor Organic St Reducing Conditions Gleyed or Laudscape position: concave flat Remarks:	Content in Surface Lattreaking in Sandy Soils Low Chroma color	yer of Sandy Soils Lis s Oil Aq convex sloping	ited as Potential for Hydri her (Explain in Remarks) nic Moisture Regime	c Inclusions Only
Histicols Concretion Histic Epipedon High Org. Suffdic Odor Organic St Reducing Conditions Gleyed or Laudscape position: concave flat Remarks:	Content in Surface Lateraking in Sandy Soils Low Chroma color un	yer of Sandy Soils Lis s Oil Aq convex sloping dulating	ited as Potential for Hydri her (Explain in Remarks) nic Moisture Regime	c Inclusions Only
Histicols Concretion Histic Epipedon High Org. Suffdic Odor Organic St Reducing Conditions Gleyed or Laudscape position: concave flat Remarks: CDROLOGY Recorded Data (Describe in Remarks)	Content in Surface Latreaking in Sandy Soils Low Chroma color und	yer of Sandy Soils Lis S Oil Aq convex sloping dulating	nted as Potential for Hydri her (Explain in Remarks) uic Moisture RegimeApproximate	c Inclusions Only
Histisols Concretion High Org. Suffdic Odor Organic St Reducing Conditions Gleyed or Laudscape position: concave flat Remarks: Recorded Data (Describe in Remarks No Recorded Data)	Content in Surface Latreaking in Sandy Soils Low Chroma color under the color	yer of Sandy Soils Lis Oil Aq convex sloping dulating Field Observations Ground Surface In	nted as Potential for Hydri her (Explain in Remarks) uic Moisture RegimeApproximate	c Inclusions Only
Histisols Concretion High Org. Suffdic Odor Organic St Reducing Conditions Gleyed or Laudscape position: concave flat Remarks: Recorded Data (Describe in Remarks Stream, Lake or Ti	Content in Surface Lateaking in Sandy Soils Low Chroma color under the color	yer of Sandy Soils Lis S Oil Aq convex sloping dulating	nted as Potential for Hydri her (Explain in Remarks) uic Moisture RegimeApproximate	c Inclusions Only
Histisols Concretion High Org. Suffidic Odor Organic St Reducing Conditions Gleyed or Laudscape position: concave flat Remarks: Remarks: Recorded Data (Describe in Remarks)	Content in Surface Lateaking in Sandy Soils Low Chroma color under the color	yer of Sandy Soils Lis Ott Aq convex sloping dulating Ground Surface In Soil Saturated.	nted as Potential for Hydriner (Explain in Remarks) uic Moisture RegimeApproximate	c Inclusions Only
Histisols Concretion High Org. Suffidic Odor Organic St Reducing Conditions Gleyed or Laudscape position: concave flat Remarks: Recorded Data (Describe in Remarks Stream, Lake or Ti	Content in Surface Lateaking in Sandy Soils Low Chroma color under the color	rer of Sandy Soils Lists Oil Aq	nted as Potential for Hydriner (Explain in Remarks) uic Moisture RegimeApproximateApproximate	c Inclusions Only
Histisols Concretion High Org. Suffidic Odor Organic St. Reducing Conditions Gleyed or Laudscape position: concave flat Remarks: Remarks: Recorded Data (Describe in Remarks Stream, Lake or Time Aerial Photographs	Content in Surface Lateaking in Sandy Soils Low Chroma color under the color	rer of Sandy Soils Lists Oil Aq	nted as Potential for Hydriner (Explain in Remarks) uic Moisture RegimeApproximate	c Inclusions Only
Histisols Concretion High Org. Suffidic Odor Organic St. Reducing Conditions Gleyed or Laudscape position: concave flat Remarks: Remarks: Recorded Data (Describe in Remarks Stream, Lake or Time Aerial Photographs Wetland Hydrology Indicators:	Content in Surface Lateaking in Sandy Soils Low Chroma color under the color	Field Observations Ground Surface Interest Soil Saturated. Depth to Free Waterinc	and as Potential for Hydriner (Explain in Remarks) uic Moisture RegimeApproximateandatedinches.	c Inclusions Only
Histisols Concretion High Org. Suffidic Odor Organic St. Reducing Conditions Gleyed or Laudscape position: concave flat Remarks: Remarks: Recorded Data (Describe in Remarks Stream, Lake or Ti Aerial Photographs Wetland Hydrology Indicators: Primary Indicators	Content in Surface Lateaking in Sandy Soils Low Chroma color under the color	Field Observations Ground Surface In Soil Saturated. Depth to Free Waterinc Depth to Saturated Soils 7.2	and as Potential for Hydriner (Explain in Remarks) uic Moisture Regime Approximate Approximate andated inches.	c Inclusions Only
HistisolsConcretion Histic Epipedon High Org. Suffidic OdorOrganic St Reducing ConditionsGleyed or Laudscape position:concave flat Remarks: DROLOGY	Content in Surface Latreaking in Sandy Soils Low Chroma color under the same of the same	Field Observations Ground Surface Im Soil Saturated. Depth to Free Waterinc Depth to Saturated Soils 7 2 Secondary Indicators (2 or more re Oxidized Root Cha	and as Potential for Hydriner (Explain in Remarks) uic Moisture Regime Approximate Approximate indicated inches. quired) nnels in upper 12 inches	c Inclusions Only
Histisols Concretion High Org. Suffidic Odor Organic St. Reducing Conditions Gleyed or Laudscape position: concave flat Remarks: Remarks: Recorded Data (Describe in Remarks Stream, Lake or Ti Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper	Content in Surface Latreaking in Sandy Soils Low Chroma color under the same of the same	Field Observations Ground Surface Important Contract Con	and as Potential for Hydriner (Explain in Remarks) uic Moisture Regime Approximate Approximate indicated inches. quired) nnels in upper 12 inches	c Inclusions Only
Histicols Concretion Histic Epipedon High Org. Sufidic Odor Organic St. Reducing Conditions Gleyed or Laudscape position: concave flat Remarks: Remarks: Recorded Data (Describe in Remarks Stream, Lake or Ti Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper Water Marks	Content in Surface Latreaking in Sandy Soils Low Chroma color under the same of the same	Field Observations Ground Surface Interpret Soil Saturated. Depth to Free Waterinc Depth to Saturated Soils 7.2 Secondary Indicators (2 or more re Oxidized Root Cha Water-Stained leave Local Soil Survey	and as Potential for Hydriner (Explain in Remarks) uic Moisture RegimeApproximateapproximateind andatedinc ehesinches. equired) unels in upper 12 inches	c Inclusions Only
Histicols Concretion Histic Epipedon High Org. Sufidic Odor Organic St. Reducing Conditions Gleyed or Laudscape position: concave flat Remarks: Recorded Data (Describe in Remarks: No Recorded Data Stream, Lake or Ti Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper Water Marks Drift Lines	Content in Surface Latreaking in Sandy Soils Low Chroma color under the same of the same	Field Observations Ground Surface Interpret Soil Saturated. Depth to Free Waterinc Depth to Saturated Soils 7 Secondary Indicators (2 or more re Oxidized Root Cha Water-Stained kave Local Soil Survey Morphological Plan	and as Potential for Hydriner (Explain in Remarks) uic Moisture RegimeApproximateApproximateindetedincludedinc	c Inclusions Only
Histicols Concretion Histic Epipedon High Org. Sufidic Odor Organic St. Reducing Conditions Gleyed or Laudscape position: concave flat Remarks: Recorded Data (Describe in Remarks: No Recorded Data Stream, Lake or Ti Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper Water Marks Drift Lines Sediment Deposits	Content in Surface Lateraking in Sandy Soils Low Chroma color underson underson Available de Gauge	Field Observations Ground Surface Interpret Soil Saturated. Depth to Free Waterinc Depth to Saturated Soils 7.2 Secondary Indicators (2 or more re Oxidized Root Cha Water-Stained leave Local Soil Survey	and as Potential for Hydriner (Explain in Remarks) uic Moisture RegimeApproximateApproximateindetedincludedinc	c Inclusions Only
Histicols Concretion Histic Epipedon High Org. Sufidic Odor Organic St. Reducing Conditions Gleyed or Laudscape position: concave flat Remarks: Recorded Data (Describe in Remarks: No Recorded Data Stream, Lake or Ti Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper Water Marks Drift Lines	Content in Surface Lateraking in Sandy Soils Low Chroma color underson underson Available de Gauge	Field Observations Ground Surface Interpret Soil Saturated. Depth to Free Waterinc Depth to Saturated Soils 7 Secondary Indicators (2 or more re Oxidized Root Cha Water-Stained kave Local Soil Survey Morphological Plan	and as Potential for Hydriner (Explain in Remarks) uic Moisture RegimeApproximateApproximateindetedincludedinc	c Inclusions Only
Histicols Concretion Histic Epipedon High Org. Sufidic Odor Organic St. Reducing Conditions Gleyed or Laudscape position: concave flat Remarks: Recorded Data (Describe in Remarks: No Recorded Data Stream, Lake or Ti Aerial Photographs Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper Water Marks Drift Lines Sediment Deposits	Content in Surface Lateraking in Sandy Soils Low Chroma color underson underson Available de Gauge	Field Observations Ground Surface Interpret Soil Saturated. Depth to Free Waterinc Depth to Saturated Soils 7 Secondary Indicators (2 or more re Oxidized Root Cha Water-Stained kave Local Soil Survey Morphological Plan	and as Potential for Hydriner (Explain in Remarks) uic Moisture RegimeApproximateApproximateindetedincludedinc	c Inclusions Only

and the second

Project Number: 09-022 Applicant: CWM	Date: Plot ID Number:	4/28/07 / W @ wet-D
Dominant Plant Species: Stratum: (circle one) Phragmites horse tail (field) H S/S T V	Indicator: FACW FAC	% Cover:
3 <u>Sedges</u> H S/S T V 4 H S/S T V 5 <u>Silky doswood</u> H S/S T V 6 H S/S T V	FACW/OBL	30
7 H S/S T V 8 H S/S T V 9 H S/S T V		
10		
14H S/S T V 15H S/S T V 16H S/S T V		
Percent of Dominant Species OBL, FACW, FAC	of Dominant Species O	BL, FACW_90+
Remarks:		
Wetland Hydrology Present? Yes or No Is this Sampling Point Within a V Hydrologic Connectivity to Off-site Wetlands? Yes or No Is this Wetland Potentially Isolate	d? Ye	or No sor(No) mewed

Environmental Design & Research 217 Montgomery Street, Suite 1000

DATA FORM

274 North Goodman Street

				-,	,	
_	Syn	acuse.	New	York	13202	

ROUTINE WETLAND DETERMINATION1987 COE Wetlands Delineation Manual

	1987 CUE Wellands Delmeanon Manual	
Project No: 09-022 Applica	nt CWM	. Date: 4/28/09
		Town: Lewiston
Investigator: Trembath, Schwabenbaue	er	County: Niagare
		State: NY
Do normal circumstances exist on site?	Yes No Community T	Spe Maintained lawn
is the site significantly disturbed?	Yes) No Nearest Flag To Data Po	7 3
Is the area a potential Problem Area?		
S the stead a potential r rootent Area:	Yes(No) Data Point ID: (i.e. 2W@Wetland	7 2 6 66 1 5
SOILS		
Series and Phase:	d sitt loan	Drainage Class: WD MWD \$PD PD VPD
- M	ollic Enloagualts	
Subgroup:	Gille Mx. aqualis	Confirm Mapped Type: (cs No A \$ 10 Fbc X
Depth Horizon Matrix color	Mottle color/abundance	Texture, Structure, Other
0-10 A 104R3/3		gravel loam
10+ B 104R/3	None	Clay Silt loam
111111111111111111111111111111111111111		
<u> </u>		_ = = = = = = = = = = = = = = = = = = =
Hydric Soil Indicators: Histisols Concretion		I inted on Y med Living Colle I ins
	Content in Surface Layer of Sandy Soils	Listed on Local Hydric Soils List Listed as Potential for Hydric Inclusions Only
	treaking in Sandy Soils	Other (Explain in Remarks)
Reducing ConditionsGleyed or	Low Chroma color	_ Aquic Moisture Regime
T 3		
Landscape position: concave flat		gApproximate slope:
Remarks: - Area re	egularly moved	
		_
- No	egularly momed hydric soil indicator	s noted.
HYDROLOGY	71 14 OF 1 14 OF 1	
Recorded Data (Describe in Rema		see Inundated inches.
Stream, Lake or Tie		
Aerial Photographs		
•	Depth to Free Water	inches.
	Depth to Saturated Soils	inches.
Wetland Hydrology Indicators: Primary Indicators	Secondary Indicators (2 or m	Andrews
Inundated		t Channels in upper 12 inches
Saturated in upper 1		• -
Water Marks	Water Marks Local Suit Survey	
Drift Lines		
Sediment Deposits	Other (Explain	n in Remarks)
Drainage Patterns in	Wetland	
Remarks:		
No wetland	I hydrology noted.	
	•	
\edr office files\forms\Data Form Routin	e Wetland Determination xls	

Project Number: 09-022		Date:	4/28/09	
Applicant: CWM		Plot ID Number:	1 is @ wet. D	
Applicant: CWM VEGETATION Dominant Plant Species: 1	Stratum: (circle one) H S/S T V H S/S T V	Indicator: FACU- F	% Cover: 10 35 20 5 25	
13H S/S T V				
WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes of No Wetland Hydrology Present? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Remarks:	Is this Sampling Point Within a V		s or No A/A	

Environmental Design & Research

217 Montgomery Street, Suite 1000

· DATA FORM

274 Nor h Goodman Street

Syracuse, New York 13202

ROUTINE WETLAND DETERMINATION 1987 COE Wetlands Delineation Manual

					
Project No. <u>09-022</u>	Applicant: CWM			Date: 4/28	3/09
Investigator: Trembath	, Schwabenbauer ' '			Town: Lewis County: Nice	enere
	·		-	State: NY	
Do normal circumstances e	xist on site? (Ves) No	• Соп	munity Type	P{m	
Is the site significantly dist	irbed? (Yes) No	Nearest Flag T	o Data Point	G-3	· .
Is the area a potential Probl	em Area? Yes No	Data Point ID: (i.e. 2W(() () () () () () () () () () () () () (m @ met.	<u> </u>
sons				*	
Series and Phase:	Madi	land (me	- Drainage Cl	ass: WD MWD SPD	PD VPD
Sabgroup:			Continu Ma	pped Type: (ES)No	
Depth Horizon	Matrix color	Mottle color/abundance	Texture, Struct	ure, Other	
0-2 0	1041242	None		organic la	42/
2-10 A	10 YR 3/2	104296, Fei	~ S	Ity loam	1
10+ B	104R 5/2	104R5/6, Com	mon (Jay	,
Hydric Soil Indicators:	11-110 1-1	12 1. 187	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1009 .	
Histisols	Concretions		Listed on Local	Hydric Soils List	
Histic Epipedon		rface Layer of Sandy Soils		ial for Hydric Inclusions Only	
Sufidic Odor Reducing Conditions	Organic Streaking in Sa Gleyed or Low Chroma	-	Other (Explain Aquic Moisture	•	
	1 ,		• • • • • • • • • • • • • • • • •	ALL PARTY OF THE P	
 Landscape position; 	concave X	convex	sloping	approximate slope:	
-	flat	undulating			. :
Remarks:)	4.		I E I MAN O CANADA AND AND AND AND AND AND AND AND AN
,					
	•				
				nne Transition of the Control of the	
HYDROLOGY	, (December to December)	77.11.01	*		
Recorded Date	a (Describe in Remarks) No Recorded Data Available	Field Observation	ound Surface Inundated	ーフ inches.	
	Stream, Lake or Tide Gauge		I Saturated.	- Indios	*\f
	Aerial Photographs	Depth to Free Wat	er C inches.		
		Depth to Saturated			
Wetland Hydrology Indicate	ors:				
Primary Indica			ors (2 or more required)		•
.,,	Inundated Saturated in upper 12 inches.		dized Root Channels in uppoter-Stained leaves	r 12 mates	
	Water Marks		al Soil Survey		
	Drift Lines	<u></u> ✓ Mo:	rphological Plant Adaptation	S	
	Sediment Deposits	Oth	er (Explain in Remarks)		
	Drainage Patterns in Wetland		e 3		
Remarks:			*	-	
Humi	nocky			,	
•					
s:\edr office files\forms\Da	ta Form Routine Wetland	d Determination.xls			

Project Number: 09-022 Applicant: CWM		Date: 428/09 Plot ID Number: LW@ WH. G		
Dominant Plant Species:	Stratum: (circle one) H S/S T V H S/S T V	Indicator: % Cover: FACW 80 FACW 50		
14	H S/S T V H S/S T V	//0.0		
Percent of Dominant Species OBL, FACW, FAC				
WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes or No Wetland Hydrology Present? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No? Remarks:	Hydric Soils Present? Is this Sampling Point Within a W Is this Wetland Potentially Isolate Pr			

Environmental Design & Research 217 Montgomery Street, Suite 1000

DATA FORM

274 North Goodman Street

Syracuse, New York 13202

-ROUTINE-WEILAND-DETERMINATION-

	1987 COE Wellands Delineation Marmal
Project No: 09-022 Applicant CWM	Date: 4/28/09
	Town: Lewiston
Investigator: Trembath, Schwabenbauer	Milana
nivesugator. Itembatii, Schwadenbauer	County: 70149474
Do normal circumstances exist on site? Yes No	Community Type Old Beld / awn
Is the site significantly disturbed? Yes No	Nearest Flag To Data Point: G - 3
Is the area a potential Problem Area? Yes No	Data Point ID: (i.e. 2W@Wetland G) / U (v Wet. G
SOILS Series and Phase: Made (a	0
Series and Phase:	Drainage Class: WD MWD SPD PD VPD
Subgroup:	Confirm Mapped Type: Yes No
- 1.1 1 1 1 1 1 1 7 1 1	Le color/abundance Texture, Structure, Other None Clay 5114 loann
0-14 1 1091293	None Clay 13111 roam
14+ B 104R5/2	None Clay
Hydric Soil Indicators:	
HistisolsConcretions .	Listed on Local Hydric Soils List
Histic EpipedonHigh Org. Content in Surface La	
Sufidic OdorOrganic Streaking in Sandy Soil:Reducing ConditionsGleyed or Low Chroma color	s Other (Explain in Remarks) Aquic Moisture Regime
COCYGO OF LOW CALCULA CONT	Addic innignite results
Landscape position: concave	convex sloping Approximate slope:
flatun	dulating
Remarks: No hydric Soil indi	icators noted.
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
•	
HYDROLOGY /	
Recorded Data (Describe in Remarks)	Field Observations
No Recorded Data Available	Ground Surface Inundated inches.
Stream, Lake or Tide Gauge	Soil Saturated.
Aerial Photographs	Depth to Free Waterinches.
TI 0. 17 1. 1. 7. 7.	Depth to Saturated Soils inches.
Wetland Hydrology Indicators: Primary Indicators	Canadas Indiantas (2) as more physical
Inundated	Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches
Saturated in upper 12 inches.	Water-Stained leaves
Water Marks	Local Soil Survey
Drift Lines	Morphological Plant Adaptations
Sediment Deposits	Other (Explain in Remarks)
Drainage Patterns in Wetland	
Remarks:	
No wetland hydrol	logy noted.
, or the state of	
lode office filestowns Data Form Boutine Wetland Data	

Project Number: 09-022 Applicant: CWM					-	Date: Plot ID Number:	10	128/09 1. E. wet. 6	-
VEGETATION									
Dominant Plant Species:	Si	tratum;	والمراد	^ma\		Indicator:		% Cover:	
1 Fescues	(H)			V		FACU		75 75	
2 perennial rye grass	H	,		v	•	FACU-	_ ·	20	•
3 old field cinquefoil	H	`	_	v	•	FACU-		<u> </u>	
A DIO REIO CIPERETOI	н	S/S	T	v	•	Frica			
5	н	S/S	T	v	-	······································	-		1
	н	S/S	T	v	•				
6	н	S/S	T	v	-				
7	н	S/S	T	v	-				
9	н	S/S	T	v	-		- •	·	
	н	S/S	T	v	-	 -			
11	н	S/S	T	v	-			, , ,,	
12	н	S/S	- Т	v			-	· · · · · · · · · · · · · · · · · · ·	
13	н	S/S	- T	v	-		-		
	 H	S/S	T	v	-	····	-		
15	н	S/S	T	v	-		· -		i
16	н	s/s	T	v	_		_		
					-				
Percent of Dominant Species OBL, FACW, FAC_0 Percent of Dominant Species OBL, FACW_0 50/20 Rule Applied? Yes No								1412774444	
Remarks:									
									l
WETLAND DETERMINATION				_					
Hydrophytic Vegetation Present? Yes of No	Hydric					es o (No)	6	`	ļ
Wetland Hydrology Present? Yes of No)	-	_		thin a W		Yes or No		
Hydrologic Connectivity to Off-site Wetlands? Yes or Newlands	+010+11111111		********	**********	Isolated Pi	oto Paference Numi	Yes or No ber;		
* In a wetland G as	nd	1a		0	11100	Hand H	/s	a	
* In @ wetland G at Shared upland	· Orani	slo	٠	- 21.5.	rt	i-ville i			
Snurea Uprana	surry	ric	P	W///	2.		-		
									- 11

Environmental Design & Research 217 Montgomery Street, Suite 1000 DATA FORM 274 North Goodman Street Syracuse, New York 13202 ROUTINE WETLAND DETERMINATION Rochester, New York 14607 1987 COE Wetlands Delineation Manual 09-022 Applicant: CWM Project No: Date: Town: NIGGERE Investigator: Trembath, Schwabenbauer County: State: DEM Do normal circumstances exist on site? Community Type Is the site significantly disturbed? Nearest Flag To Date Point: wet. h Is the area a potential Problem Area? Data Point ID: (i.e. 2W@Wetland G) SOILS Series and Phase: Drainage Class: WD MWD SPD PD VPD Confirm Mapped Type: Subgroup: (E)No Depth Horizon Matrix color Texture, Structure, Other 104R 3/2 0-6 В 6+ Hydric Soll Indicators: Histisols Listed on Local Hydric Soils List *Concretions Histic Epipedon Listed as Potential for Hydric Inclusions Only High Org. Content in Surface Layer of Sandy Soils Sufidic Odor Organic Streaking in Sandy Soils Other (Explain in Remarks) Reducing Conditions Gleyed or Low Chroma color Aquic Moisture Regime Landscape position: Approximate slope concave convex flat Remarks: HYDROLOGY Recorded Data (Describe in Remarks) Field Observations No Recorded Data Available Ground Surface Inundated Stream, Lake or Tide Gauge Soil Saturated. Aerial Photographs Depth to Free Water Depth to Saturated Soils Wetland Hydrology Indicators: Primary Indicators Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches Inundated Water-Stained leaves Saturated in upper 12 inches. Local Soil Survey Water Marks Drift Lines Morphological Plant Adaptations Sediment Deposits Other (Explain in Remarks) Drainage Patterns in Wetland Remarks:

, ÷

s:\edr office files\forms\Data Form Routine Wetland Determination:xls

Project Number: 09-022	Date: 4/28/09
Applicant: CWM	Plot ID Number: / w @ wet. H
VEGETATION Dominant Plant Species: Stratum: (circle one) 1	Indicator: % Cover: FACU 90
2 Sedges H S/S T V	FACW 10
3 H S/S T V 4 H S/S T V	
5H S/S T V 6H S/S T V	
7H S/S T V	
8 H S/S T V 9 H S/S T V	
10 H S/S T V 11 H S/S T V	
12 H S/S T V	
13 H S/S T V 14 H S/S T V	
15H S/S T V 16H S/S T V	
Percent of Dominant Species OBL, FACW, FAC 00 Percent of Dominant Species OBL, FACW, FAC 50/20 Rule Applied? Yes No	nt of Dominant Species OBL, FACW_/OO
Remarks:	
WETLAND DETERMINATION	
Hydrophytic Vegetation Present? Yes or No Hydric Soils Present?	Yes r No
Wetland Hydrology Present? Yes or No Is this Sampling Point Within a	a Wetland? Yes or No
Hydrologic Connectivity to Off-site Wetlands? Yes o No	······································
* I u @ wetland H and lu @ shared upland sample point.	Photo Reference Number: We fland G is a
shared upland sample point.	

Environmental Design & Research
217 Montgomery Street, Suite 1000
Syracuse, New York 13202

DATA FORM

·ROUTINE-WETLAND-DETERMINATION

987 COE Wetlands Delineation Manual

274 North Goodman Street Rochester, New York 14607

		1987 COE Wetlands Delineation	i Manual	
Project M. 09-022	Applicant: CW	M	Date:	4/28/09
Project N			Town:	Lewiston
Investigator: Trembati	. Sehwahenhauer		County:	Niagara
mvesiigaea. Ttelabati	, осинавеннае		State:	Lov

Do normal circumstances of	exist on site?	No Comm	nunity Type 181	77
Is the site significantly dist	nurbed?	No Nearest Flag To	Data Point Z-6	
Is the area a potential Prob		Data Point ID: (i.e. 2W@		o wet. I
Is the men a potential F100	ion ruea:	Data Foul ID. (I.E. 24(6)	Welland O)	<i>Na.</i> 5
Contract Con				
sorls	mal	. 1.0		
Series and Phase:	1.00	L 1710	Drainage Class:	WD MWD SPD PD VPD
Subgroup:			Confirm Mapped Typ	e: (Yes)No
·				y
Depth Horizon	Matrix color	Mottle color/abundance	Texture, Structure, Other	r A San
0-5 A	104K72	None	Closy	
5+ B	toyk th	104296. Com	non Class	
	1017	10 12 14		· · · · · · · · · · · · · · · · · · ·
		·		
Hydric Soil Indicators:				
Histisols	Concretions		Listed on Local Hydric S	oils List
Histic Epipedon		n Surface Layer of Sandy Soils	Listed as Potential for Hy	10
Sufidic Odor	Organic Streaking in Gleyed or Low Chro		Other (Explain in Remark Aquic Moisture Regime	(S)
Reducing Conditions	Creyes of Low Cittle	mia color	vifue wording Keguie	
Landscape position:	concaveX	convex	sloping Approxim	ate slope:
•	flat	undulating		
***************************************	**************************************	arramental and the second seco		
Remarks:			;	
·				
		r)		
HYDROLOGY			. **	• • • • • • • • • • • • • • • • • • • •
Recorded Da	ta (Describe in Remarks)	Field Observations		
	No Recorded Data Available		and Surface Inundated	inches.
	_Stream, Lake or Tide Gauge Aerial Photographs	Soil	Saturated,	
- /	_ Actual Filolograpus	Depth to Free Water	r 👂 inches.	
r		Depth to Saturated S		•
TET ALSO LATE ALSO LATE ATTENDED	•	Dopat to constitute		
Wetland Hydrology Indicat Primary Indic		Secondary Indicator	s (2 or more required)	
(10.00)	Inundated		ized Root Channels in upper 12 inch	es .
. 🗶	Saturated in upper 12 inches		x-Stained leaves	
,	Water Marks		l Soil Survey	
	Drift Lines		phological Plant Adaptations	
₩.	Sediment Deposits Drainage Patterns in Wetland		r (Explain in Remarks)	
	Гудия в станств и мении	•		***************************************
Remarks:	 		. 	494999 16044 9949 9944 9944 9944 9949 997
			•	
:\edr_office files\forms\Da	ata Form Routine Wet	land Determination.xls		

Project Number: 09-022 Applicant: CWM	Date: Plot ID Number:	4/28/09 1 w @ wet.I
Dominant Plant Species: Stratum: (circle case)	Indicator: FACW FACW/OBL FAC	% Cover: : %O / 0 / 0
15 H S/S T V 16 H S/S T V Percent of Dominant Species OBL, FACW, FAC OD Percent	of Dominant Species OBL	, facw_ <i>90</i>
50/20 Rule Applied? Yes No Remarks:	***************************************	
Wetland Hydrology Present? Yes r No Is this Sampling Point Within a V Hydrologic Connectivity to Off-site Wetlands? Yes r No 7 Is this Wetland Potentially Isolate		\sim

217 Montgomery Street, Suite 1000

DATA FORM

274 North Goodman Street

Syracuse, New York 13202

ROUTINE WETLAND DETERMINATION

		1987 COE Wetlands Delineation Manual	
Project No: 09-02	2 Applicant: CWM		Date: 4/28/09
			Town: Lewiston
Investigator: Trembat	th, Schwabenbauer		County: Niegara
			State: NY
Do normal circumstances	exist on site? (Yes) No	Соптиліту Туре	maintained lawn
Is the site significantly dis	sturbed? Yes No	Nearest Flag To Data Point:	I-6
Is the area a potential Pro	\leq	Data Point ID: (i.e. 2W@Wetland G)	/ ^ -
15 tile alea a joileitta. Fio	Oldin Alean 14 (19)	Data I tilli D. (Le. 24 @ 4 chaid 0)	, - (
SOILS	-	_	
Series and Phase:	Made	land	Drainage Class: WD MWD SPD PD VPD
OCHES AND A MASC.			
Subgroup:			Confirm Mapped Type: Yes No
Depth Horizon	Matrix color	Mottle color/abundance	Texture, Structure, Other
0-16+ A	10423/3	None	Clay
i i			
Hydric Soil Indicators:		······································	
Histisols	Concretions	Į	isted on Local Hydric Soils List
Histic Epipedon	High Org. Content in Surf		isted as Potential for Hydric Inclusions Only
Sufidic Odor	Organic Streaking in Sand	y Soils (Other (Explain in Remarks)
Reducing Conditions	Gleyed or Low Chroma co	forA	Aquic Moisture Regime
		eta tan	A much an dama
Landscape position:	flat	convex sloping undulating	Approximate slope:
		· / -	
Remarks:	- Area resular	ly moved and	in an area of il roll-off storage area
	1 1 1	11 1 1 1 5	1 rollecte storage are
	significant at	spurbance (ie. so	11 101/2011 310192 401
- No 1	widere soil in	rdicators noted.	
HYDROLOGY			
	rta (Describe in Remarks)	Field Observations	
	No Recorded Data Available	Ground Surface)	mundatedinches.
	Stream, Lake or Tide Gauge	Soil Saturated.	
i/	Aerial Photographs	. Balan Wha	.a.
		,	nches.
		Depth to Saturated Soils	inches.
Wetland Hydrology Indica			
Primary Indic		Secondary Indicators (2 or more	• "
	_ Inundated _ Saturated in upper 12 inches.	Oxidized Root Cl Water-Stained les	nannels in upper 12 inches aves
	Water Marks	Local Soil Survey	
	Drift Lines	Morphological Pl	
·	Sediment Deposits	Other (Explain in	Remarks)
-	Drainage Patterns in Wetland		
Remarks:			
Maria Min	wetland hydro.	logy noted.	
///		01	
edr office files/forms/D	ata Form Routine Wetland I	Patermination vis	

			1/20/20
Project Number: 09-022		Date:	4/00/07
Applicant: CWM	, ,	Plot ID Number:	/ H @ wet. I
VEGETATION Dominant Plant Species: 1	Stratum: (circle cose) H S/S T V H S/S T V	Indicator: FACU FACU FACU FACU	% Cover: (0 /0 /5 /5 -25
Percent of Dominant Species OBL, FACW, FAC 50/20 Rule App		of Dominant Species Ol	BL, FACW_O
Remarks:			
WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes of No Wetland Hydrology Present? Yes of No Hydrologic Connectivity to Off-site Wetlands? Yes or Novia Remarks:	Is this Sampling Point Within a W		s o(N) s or No (U/A)

Environmental Design & Research 217 Montgomery Street, Suite 1000 Syracuse, New York 13202	DATA FORM ROUTINE WETLAND DETERMINA 1987 COE Wetlands Delineation Manual	TION Rochester, New York 14607
Project No: 09-022 Applicant:	CWM	Date: 4/28/07 Town: Lewis for
Investigator Trembath, Schwabenbauer		County: N'agara State: NY
Do normal circumstances exist on site? Is the site significantly disturbed? Is the area a potential Problem Area?	Yes No Community Type Yes No Nearest Flag To Data Point: Yes No Data Point ID: (i.e. 2W@Wetland G)	J-76
Subgroup: WCSIC Moll Depth Horizon Matrix color O-6 A 10 YR 7/2 6 † B 10 YR 5/2 Hydric Soli Indicators: Histic Epipedon High Org. Co Suffice Conditions Gleyed or Low Landscape position: concave flat	ntent in Surface Layer of Sandy Soils king in Sandy Soils v Chroma color convex undulating	Drainage Class: WD MWD SPD PD VPD Confirm Mapped Type: Yes No Detartal Texture, Structure, Other Clay Clay Listed on Local Hydric Sails List Listed as Potential for Hydric Inclusions Only Other (Explain in Remarks) Aquic Moisture Regime Approximate slope: Approximate slope:
land fill.	inaga to series of culve	U
HYDROLOGY	Total Observation	

Field Observations
Ground Surface Inundated 2-3 inches.
Soil Saturated.
 ,
Depth to Free Water Oinches.
Depth to Saturated Soils Oinches.
Secondary Indicators (2 or more required)
Oxidized Root Channels in upper 12 inches `
✓ Water-Stained leaves
Local Soil Survey
Morphological Plant Adaptations
Other (Explain in Remarks)
-

s:\edr office files\forms\Data Form Routine Wetland Determination.xls

Project Number: 09-022 Applicant: CWM		Date:	4/28/09 w @ wet.J
VEGETATION			
Dominant Plant Species:	Stratum: (circle one)	Indicator:	% Cover:
1 thin leaf rattail	B S/S T V.	<i>0BL</i>	50
2 Common Cattail	⊕ S∕S T V	081	40
3 Soft rwh	(H) S/S T V	FACW+	
4	H S/S T V		
5	H S/S T V	·	
6	H S/S T V		
7	H S/S T V		
8	H S/S T V		
9	H S/S T V		
10	HS/STV		
	H S/S T V	·	
11	H S/S T V		
12	H S/S T V		
13			
14	H S/S T V		
15	H S/S T V		
16	н s/s т v	_	
Percent of Dominant Species OBL, FACW, FAC 600 50/20 Rule App		of Dominant Species OBL,	FACW /00
Remarks:			
WETLAND DETERMINATION			
Hydrophytic Vegetation Present? Yester No	Hydric Soils Present?	(es)or No	
Wetland Hydrology Present? Yes or No	Is this Sampling Point Within a V	Vetland? Yes	r No
Hydrologic Connectivity to Off-site Wetlands? Yes or No	Is this Wetland Potentially Isolate	d7 Ves 0	(No)
Remarks: A large portion of wetland a series of drainage diffiles buse of landfill & access road by numerous culverts.	T consists of located between ls; all interco	noto Reference Number:	
by pureron cure is.			

s:\edr office files\forms\Data Form Routine Wetland Determination.xls

	WETLAND DETERMINATION COE Wetlands Delineation Manual	TION	Rochester, New York 14607
Project No: 09-022 Applicant: CWM Investigator: Trembath, Schwabenbauer		Date: Town: County:	4/28/09 Lewiston Niagara
Do normal circumstances exist on site? Is the site significantly disturbed? Is the area a potential Problem Area? Yes No Date of the area and th	Community Type Nearest Flag To Data Point ata Point ID: (i.e. 2W@Wetland G)	J-79	road ride wet. J
Depth Horizon Matrix color 3/5 4/4 Mottle color 0-14 A 1042 3/5 4/4	raqualts	Drainage Class: V Confirm Mapped Type: Texture, Structure, Other Silf e g. Silf loa	wo mwo spoted verd Yes No Distorball rave/
Hydric Soil Indicators: HistisolsConcretions Histic EpipedonHigh Org. Content in Surface Layer ofSufidic OdorOrganic Streaking in Sandy SoilsReducing ConditionsGleyed or Low Chroma color Landscape position:concaveconv	of Sandy Soils L O A sloping	Listed on Local Hydric Soils I Listed as Potential for Hydric i Other (Explain in Remarks) Aquic Moisture Regime Approximate sl	
Remarks: No hydric soil indica * Shared upland sample	rtars noted. point for i	lw = 2 w	@wet_J
HYDROLOGY Recorded Data (Describe in Remarks) No Recorded Data Available Stream, Lake or Tide Gauge Aerial Photographs	Field Observations Ground Surface In Soil Saturated. Depth to Free Water in	Inundated inche	
Wetland Hydrology Indicators: Primary Indicators Inundated Saturated in upper \$2 inches Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland	Depth to Saturated Soils Secondary Indicators (2 or more 1	hannels in upper 12 inches aves y lant Adaptations	
Remarks: No wetland hydrology	1 nokd.		Mellerier

Project Number: 09-022						Date:	4/28/09
Applicant: CWM					_	Plot ID Number:	Tu wet. J
VEGETATION Dominant Plant Species: 1	SE (H) (H) (H) H H H H	ratum:) s/s) s/s) s/s) s/s s/s s/s s/s s/s s/s s/s	T T T	v v v v v v v v v v v v v v v v v v v		Indicator: FACU FACU- FACU- NL	% Cover:
11	н	S/S	T	v	-	·	
12	Н	s/s	T	v	-		
13	H	S/S	T	v	_		
14	Н	s/s	T	v			
15	H	S/S	Ŧ	v	_		
16	H	S/S	Ŧ	v	_		
Percent of Dominant Species OBL, FACW, FAC O Percent of Dominant Species OBL, FACW O 50/20 Rule Applied? Yes No Remarks:							
WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes of No Wetland Hydrology Present? Yes of No Hydrologic Connectivity to Off-site Wetlands? Yes of No Remarks:		ampli	ng Po	int W	ithin a W ly Isolated		s or No (U/A)

DATA FORM

274 North Goodman Street

Syracuse, New York 13202	· RO	OUTINE WETLAND DETERMI 1987 COE Wetlands Delineation Manual		Rochester, New York 14607
Project No: 09-022	Applicant: CWM		Date:	4/28/09
- .			Town:	Lewiston
Investigator: Trembath,	Schwabenbauer		County:	Niksara
	E Partie de la constante de la	PA	State:	NY
Do normal circumstances ex	xist on site?	Community T	Type PFO/PE	·M
	$\tilde{}$	-	ر بر رسی بر 	
Is the site significantly distu	ہر ک	`		<u> </u>
ls the area a potential Proble	em Arca? Yes (No	Data Point ID: (i.e. 2W@Wetland	4G) 2 W (wet. T
SOILS		-		
	made	land .	m	and her with
Series and Phase:		(A.A.)	Drainage Class:	WD MWD SPD PD VPD
Subgroup:			Confirm Mapped Type:	: (Yès) No
Depth Horizon	Matrix color	Mottle color/abundance	Texture, Structure, Other	•
0-4 A	10423/2	None		ilt loam
	1 /,		-	
4+ 3	10425/2	1042 %; 5/8, Com	rmen C	lan
				7
	1			
Hydric Soil Indicators:	~			
Histisols Histic Entredon	Concretions High One Content in Su	Contract Calls	Listed on Local Hydric Soi	
Histic Epipedon Sufidic Odor		urface Layer of Sandy Soils noty Soils	Listed as Potential for Hyde Other (Explain in Remarks)	•
Sufidic Odor Reducing Conditions	Organic Streaking in Sar Gleyed or Low Chroma	-	Other (Explain in Remarks Aquic Moisture Regime	i)
			Adjust violence	
Landscape position:	concave	convex slopi	ing Approximat	te clone:
<u> </u>	flat	undulating		the state of the s
		49000 Francisco 10000 10		***************************************
Remarks: - Ar	rea adjacent	to moved areas	r ? roads	
	,		,	
IYDROLOGY Recorded Data	a (Describe in Remarks)	Field Observations		
	No Recorded Data Available		rface Inundated in	inches.
	Stream, Lake or Tide Gauge	Soil Saturate		Illus-2.
	Aerial Photographs			
_		Depth to Free Water 2-3	3 inches.	
		Depth to Saturated Soils	O inches	
Wetland Hydrology Indicato		•		
Wetland Hydrology Indicato Primary Indicat		Secondary Indicators (2 or n	maninad	
	Znundated	•	more requirea) oot Channels in upper 12 inches	e
	Saturated in upper 12 inches.	Water-Staine		.
_	Water Marks	Local Soil Su		
1	Drift Lines		cal Plant Adaptations	
•	Sediment Deposits	Other (Expla	ain in Remarks)	
I	Drainage Patterns in Wetland			
Remarks:				78442414 parage (
Elijim; po-	R. Herring	•		
	Buttressing			•
	/			
		d Determination via		•

Project Number: 09-022 Applicant: CWM		Date: Plot ID Number:	4/18/09 2w@wet.J
Dominant Plant Species:		Indicator: FAC FACW FACW/OBL FACW+ Of Dominant Species OBI	. %Cover:
WETLAND DETERMINATION Hydrophytic Vegetation Present? Vegor No Wetland Hydrology Present? Vegor No Hydrologic Connectivity to Off-site Wetlands? Vegor No Remarks:	Is this Sampling Point Within a W Is this Wetland Potentially Isolated		\sim

DATA FORM

274 North Goodman Street

Syracuse, New York 13202

ROUTINE WETLAND DETERMINATION-

1987 COE Wetlands Delineatio	n Manual
Project No: 09-022 Applicant CWM	Date: 4/28/09
· ·	Town: Lewiston
Investigator: Trembath, Schwabenbauer	County: <u>Niagara</u>
	State: NY
Do normal circumstances exist on site? Yes No Comm	munity Type Maintained Jawn
Is the site significantly disturbed? Yes No Nearest Flag To	
Is the area a potential Problem Area? Yes No Data Point ID: (i.e. 2W@	Wetland G) 2 u @ wet. J
SOILS	·
Series and Phase: Made Incl	Drainage Class: WD MWD SPD PD VPD
Տսեgroup։	Confirm Mapped Type: Yes No
Depth Horizon Matrix color Mottle color/abundance	Texture, Structure, Other
0-14 A 104R73 None	grave//sit/gam
14+ B 104R5/2 None	Clau
711 0 1010 10	

Hydric Soil Indicators:	AND A SECURIT OF SECURITION
	Listed on Local Hydric Soils List Listed as Potential for Hydric Inclusions Only
Sufficie OdorOrganic Streaking in Sandy Soils	Other (Explain in Remarks)
Reducing ConditionsGleyed or Low Chroma color	Aquic Moisture Regime
Landscape position: concave convex	sloping Approximate slope: 3-5
flat undulating	Stopmig Approximate sopti
Remarks: Narrow area between &ite road - No hydric soil indicators n	1 c roadside a ten
11 1 and indicates	
- No hydric Soil Indicators n	wxa,
HYDROLOGY Recorded Data (Describe in Remarks) Field Observation	
	und Surface Inundated inches.
	Saturated
Aerial Photographs Depth to Free Wate	r inches.
Depth to Saturated	
Wetland Hydrology Indicators:	
The state of the s	rs (2 or more required)
•	Sized Root Channels in upper 12 inches
	er-Stained leaves
	al Soil Survey
	phological Plant Adaptations ar (Explain in Remarks)
One	(Capitali iii Aciitala)
Remarks:	
No wetland hydrology noted.	
::\edr office files\forms\Data Form Routine Wetland Determination.xls	

Project Number: 09-022 Applicant: CWM		Date: Plot ID Number:	4/28/09 2 u p wet. J
3 field horse fail 4 fease 5 6 7 8 9 10 11 12 13	Stratum: (circle one) H S/S T V H S/S T V	Indicator: FACU FACU FAC NL	% Cover: 80 / 5 < 5
15	H S/S T V		
Percent of Dominant Species OBL, FACW, FAC	Perc Yes No	cent of Dominant Species OBI	, FACW_O
Wetland Hydrology Present? Yes of No Is th	iric Soils Present? his Sampling Point Within his Wetland Potentially Isa		or No (MA)

217 Montgomery Street, Suite 1000

DATA FORM.

274 North Goodman Street

Syracuse, New York 13202

ROUTINE WETLAND DETERMINATION

		1987 COE 1	Wetlands Delineation Manual			
Project No: 09-022	Applicant C	WM		Date:	4/28/09	
Investigator: Trembath,	Sahwa hanha yar			Town: County:	<u>Lewiston</u> Niggara	
investigator. Licentrating	, SCRWADERDAGE			State:	NY	
Do normal circumstances ex	xist on site?	es) No	Community Type	PEM to a	drainage channel	
Is the site significantly distu	urbed?	S)No	Nearest Flag To Data Point:			
Is the area a potential Proble	em Area? Y	No Data Po	int ID: (i.e. 2W@Wetland G)	1000	vet K	
SOILS		. 0				
Series and Phase:	mal.	e land	***************************************	Drainage Class: WI	MWD SPD PD VPD	
Subgroup:				Confirm Mapped Type:	© No	
Depth Horizon	Matrix color	Mottle color/ab	undance	Texture, Structure, Other	1	
0-2 0	1042 12	None		organic	lager	
2-12 A	104/2	104R 5/6,	Mad. Abund.	clay		
12+ B	10425/2	10425/6	Common	clay		
Hydric Soil Indicators:	<u> </u>					
Histisols	Concretions			Listed on Local Hydric Soils Lis		
Histic Epipedon		nt in Surface Layer of San - in Son to Soile	-	Listed as Potential for Hydric Inc	lusions Only	
Sufidic Odor Reducing Conditions	Organic Streakin Gleyed or Low C	-		Other (Explain in Remarks) Aquic Moisture Regime		
The state of the s	0.0,010.00.00	/	_	May		
Landscape position:	CONCRIVE	convex_	sloping	Approximate slop	e:	
	flat	undulating_				
Remarks:	***************************************			, , , , , , , , , , , , , , , , , , , 	1443 t Abidda 141 (1464 (1464 (1464) 1467 (1667 (1667) 177 (177 (177 (177 (177 (177 (177 (177	
HYDROLOGY						
,	a (Describe in Remarks)		ield Observations	4.1		
	No Recorded Data Availa	_	Ground Surface	Inundated inches	• .	
	Stream, Lake or Tide Gar Aerial Photographs	ige	Soil Saturated.			
 	Thomas a save party	D	epth to Free Water	inches.		
		D	epth to Saturated Soils 0	inches.		
Wetland Hydrology Indicate	ors:					
Primary Indica		Se	econdary Indicators (2 or more			
ر	Inundated Oxidized Root Channels in upper 12 inches					
	Saturated in upper 12 inches. Water-Stained leaves Local Soil Survey					
	Drift Lines		Morphological P			
	Sediment Deposits		Other (Explain i	n Remarks)		
	Drainage Patterns in Weti	and	•			
Remarks:		.j.a. polisii dad (.j.) (.j.a. (.) (.j.) (.j. (.) (.) (.) (.) (.) (.) (.) (.) (.) (.	na mulani bada bijanda bila fiyolog boʻl Boʻl Googa (2521 Gʻ20 10 1920 794 (C			
s:\edr office files\forms\Da	ta Form Routine W	ettand Determination	on.xis			

Project Number: 09-022		Date:	4/28/09
Applicant: CWM		Plot ID Number:	I wa wet. K
			<u> </u>
VEGETATION			
Dominant Plant Species:	Stratum: (circle one)	Indicator:	% Cover:
1 <u>Silky dogwood</u>	н (s/s) т v	FACW	
2/	H S/S T V		
3 Phragmites	H) S/S T V	FACU	90
4 Sedges	H S/S T V	FACW/OBL	
5	H S/S T V		<u></u>
6	H S/S T V		
7	H S/S T V		
8	H \$/\$ T V		
9	H S/S T V		
10	H S/S T V		
11	H S/S T V		
12	H \$/\$ T V		
13	H S/S T V		
14	H S/S T V		
15	H S/S T V		
16	H S/S T V		
Percent of Dominant Species OBL, FACW, FAC 100	Percent	t of Dominant Species O	BL, FACW <u>/00</u>
50/20 Rule Applied	1? Yes No		
here a bilal I wants	a me couler	belle assure	1 norsmoter
Remarks: - Area subjected to mowing	y on guia	colo la	parking ages
of wet area and bo	ralized on one	siae by	rusking wies.
ν		•	·
WETLAND DETERMINATION			
	Hydric Soils Present?	Yes or No	
	s this Sampling Point Within a	_	es or No
	s this Wetland Potentially Isolat	>	s or No
Remarks:		Photo Reference Numbe	r.

217 Montgomery Street, Suite 1000

DATA FORM

274 North Goodman Street

Syracuse, New York 13202

ROUTINE WETLAND DETERMINATION

170	7 COE Wetlands Delineation Manual					
Project No: 09-022 Applicant: CWM	Date: 4/28/09					
	Town: Lewiston					
Investigator. Trembath, Schwabenbauer	County: Ningara					
	State: NY					
Do normal circumstances exist on site?	Community Type Maintained lawn					
Is the site significantly disturbed? Yes No	Nearest Flag To Data Point:					
Is the area a potential Problem Area?	Data Point ID: (i.e. 2W@Wetland G) / U @ Wef. K					
Soils Made (200	0					
Scries and Phase:	Drainage Class: WD MWD SPD PD VPD					
Subgroup:	Confirm Mapped Type: (S) No					
	olor/abundance Texture, Structure, Other					
	ONE SILT LOAM					
7+ B 10/R 1/3 NO	ONE SILT/CLAY					
Hydric Soil Indicators:	Y to a day y and y to day Callay in					
HistisolsConcretionsHistic EpipedonHigh Org. Content in Surface Layer	of Sandy Soils Listed on Local Hydric Soils List Listed as Potential for Hydric Inclusions Only					
	Other (Explain in Remarks)					
Reducing Conditions Gleyed or Low Chroma color	Aquic Moisture Regime					
The second second	i Annowing dans					
Landscape position: concave co	nevex sloping Approximate slope:					
Remarks: No hydric soil indicators noted,						
100 regaine son acce	4700 - 47-7 (
•						
HYDROLOGY	·					
Recorded Data (Describe in Remarks) No Recorded Data Available	Field Observations Ground Surface Immediated inches.					
No Recorded Data Available Stream, Lake or Tide Gauge	Soil Saturated. menes.					
Aerial Photographs						
	Depth to Free Waterinches.					
	Depth to Saturated Soils inches.					
Wetland Hydrology Indicators:						
Primary Indicators	Secondary Indicators (2 or more required)					
InundatedSaturated in upper 12 inches.	Oxidized Root Channels in upper 12 inches Water-Stained leaves					
Saturated in upper 12 mones. Water Marks	water-scanned leaves Local Soil Survey					
Drift Lines	Morphological Plant Adaptations					
Sediment Deposits	Other (Explain in Remarks)					
Drainage Patterns in Wetland						
Remarks:						
Remarks: No wetland hydrology	, noted,					
00000						
s:ledr office filestforms\Data Form Routine Wetland Determ						
Mode office tileettermen 1919 Lern Permane vienne 1919 in 1919	ainstian ve					

Project Number: 09-022						Date:	4/28/09
Applicant: CWM						Plot ID Number:	'Inc wet. K
VEGETATION							
Dominant Plant Species:	Sta	atum:	(circle	one)		Indicator:	% Cover.
1 fescues	(H)	S/S	т	v		FACU	70
	G)	S/S	т	v	-	FACU-	10
2 perennial rye grass				•	•		
3 white clover	(H)	S/S	T	v	-	<u>FACU-</u>	
4 dandelion	(H)	S/S	T	V		FACU-	
5	H	S/S	T	v	_		
6	н	8/5	T	v			
	н	S/S	т	v	_		
-					-		
	Н	S/S	T	V	-		
9	H	S/S	T	V	_		
10	H	S/S	T	v	_		
LI	H	S/S	T	v	-		
12	Ħ	S/S	T	v			
•	н	S/S	т	v	-		
13			_		_		
14	Н	S/S	T	V	-	***************************************	
15	Н	S/S	T	V	_		• <u> </u>
16	н	S/S	T	v			•

Percent of Dominant Species OBL, FACW, FAC				Pı	ercent o	f Dominant Species C	BL FACW
				- '		- Damies optices	
50/20 Rule App	licd?	Yes	No				
	***************************************	102 17 1 1 1 1 1 1	•14-22-4-22-4-4	, , , 4 , 4 , 4 , 4 , 4 , 4 , 7 , 7	***********	***************************************	*******************************
Remarks: - Area mowed regula	rly						
	-						
				<u> </u>			
VETLAND DETERMINATION							
Hydrophytic Vegetation Present? Yes or No	Hydric S	Soils P	ricson	t?	Y	es or (No)	
Wetland Hydrology Present? Yes of No	Is this S	emplir	ng Po	int With	uin a W	ctland? Ye	es of No
Hydrologic Connectivity to Off-site Wetlands? Yes of No	Is this W	etlano	i Pote	ntially !	isolated	Ye	es or No (U/A)
Remarks:					Pb	oto Reference Numbe	r.
]
							1

217 Montgomery Street, Suite 1000

DATA FORM

274 North Goodman Street

Syracuse, New York 13202

ROUTINE WETLAND DETERMINATION

1987 COE Wetlands Delineation Manual

1987 COE Wetlands Delineation Manual	
Project No: 69-022 Applicant: CWM	Date: 4/28/09
	Town: Lewiston
Investigator. Trembath, Schwabenbauer	County: Niagara
	State: NY
Do normal circumstances exist on site? Yes No Community Type_	PEM .
Is the site significantly disturbed? Yes No Nearest Flag To Data Point:	L-1
Is the area a potential Problem Area? Yes No Data Point ID: (i.e. 2W@Wetland G)_	/ w@ wet.L
SOILS	
made land	Drainage Class: WD MWD SPD PD VPD
Subgroup:	Confirm Mapped Type: (No
	exture, Structure, Other
0-9 A 104R 7/2 104R 5/4, Common >6"	Clay
9+ B 10425/2 1046 5/6. Common	Clay
Hydric Soil Indicators:	
HistisolsConcretionsLi	isted on Local Hydric Soils List
	isted as Potential for Hydric Inclusions Only
-	ther (Explain in Remarks) quic Moisture Regime
Landscape position: concave convex sloping undulating	Approximate slope:
Remarks: If Area rutted, moved to edges and significant industrial activity / disturb	d in an area of Bance.
HYDROLOGY Recorded Data (Describe in Remarks) Field Observations	
Recorded Data (Describe in Remarks) No Recorded Data Available Ground Surface In	nundatedinches.
Soil Saturated.	
	nches.
Depth to Saturated Soils O	inches.
Wetland Hydrology Indicators:	
Primary Indicators Secondary Indicators (2 or more re	
	annels in upper 12 inches
Saturated in upper 12 inches. Water-Stained leav Water Marks Local Soil Survey	ves
Water MarksLocal Soil Survey Drift Lines Morphological Plan	mt Administrace
Sediment Deposits Other (Explain in F	
Drainage Patterns in Wetland	
Remarks:	
	I
Hummocky	
s:\edr office files\forms\Data Form Routine Wetland Determination.xts	

Project Number: 09-022 Applicant: CWM	· · · · · · · · · · · · · · · · · · ·	Date: Plot ID Number:	Hrsfog Lw @ wet. L
VEGETATION Dominant Plant Species: 1	Stratum: (carcle one) S/S T V H S/S T V	Indicator: FACW OBL FACW	% Cover:
12	H S/S T V	of Dominant Species OBL, I	FACW
50/20 Rule App	olied? Yes No	·	
WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes or No Wetland Hydrology Present? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Remarks;	Is this Sampling Point Within a V		

DATA FORM

274 North Goodman Street

Syracuse, New York 13202

ROUTINE WETLAND DETERMINATION

1987 COE Wetlands Delineation Manual
Project No: 09-022 Applicant: CWM Date: 4/28/09
Investigator, Trembath, Schwabenbauer Town: Lewiston County: Viagara
Investigator: Trembath, Schwabenbauer County: ///agara State: NY
Do normal circumstances exist on site? (Yes) No Community Type <u>Mainfained</u> Jawn
Is the site significantly disturbed? (Ves) No Nearest Flag To Data Point: 4/11 @ Wet. L
Is the area a potential Problem Area? Yes No Data Point ID: (i.e. 2W@Wetland G) BT & L-/
SOILS Made land Drainage Class: WD MWD SPD PD VPD
Scales with thate.
Subgroup: Confirm Mapped Type: ON
Depth Harizon Matrix color Mottle color/abundance Texture, Structure, Other Depth Harizon Matrix color Mottle color/abundance Texture, Structure, Other Silt/Clay/oan
100/2 14 10/1C 13 100/2 C 1/0/
12+ B 104R 4/3 Nove Silt/Clay Joann
Hydric Soil Indicators: Histisols Concretions Listed on Local Hydric Soils List
Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Listed as Potential for Hydric Inclusions Only
Suffidic Odor Organic Streaking in Sandy Soils Other (Explain in Remarks)
Reducing Conditions Gleyed or Low Chroma color Aquic Moisture Regime
Landscape position: concave convex sloping Approximate slope:
flat undulating X
Remarks: - Area regularly momed & heavily rutted by machinery * No hydric soil indicators noted.
* No hydric soil malectors mores.
HYDROLOGY
Recorded Data (Describe in Remarks) Field Observations
No Recorded Data Available Ground Surface Inundated inches. Stream, Lake or Tide Gauge Soil Saturated.
Aerial Photographs
Depth to Free Waterinches. Depth to Saturated Soilsinches.
Wetland Hydrology Indicators:
Primary Indicators Secondary Indicators (2 or more required)
InundatedOxidized Root Channels in upper 12 inches
Saturated in upper 12 inches. Water-Stained leaves Water Marks Local Soil Survey
Drift Lines Morphological Plant Adaptations
Sediment Deposits Other (Explain in Remarks)
Drainage Patterns in Wetland
Remarks: No wetland hydrology noted.
::\edr office files\forms\Data Form Routine Wetland Determination.xls

Project Number: 09-022 Applicant: CWM		Plot ID Number: / u @ wet-L
VEGETATION Dominant Plant Species: 1 fescues 2 dunde from 3 ercherd grass 4 from thy 5 6 7 8 9 10 11 12 13 14 15 16 Percent of Dominant Species OBL, FACW, FAC Do S0/20 Rule App		Indicator: % Cover: FACU 90 FACU 5 FACU (5) FACU (5) FACU (5) Of Dominant Species OBL, FACW P
Remarks:		
WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes or No Wetland Hydrology Present? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Remarks:	Is this Sampling Point Within a W	

217 Montgomezy Street, Suite 1000

DATA FORM

274 North Goodman Street

Syracuse, New York 13202

ROUTINE WETLAND DETERMINATION

				1987 C	OE Wetlands I	elineation Manual			·
Project No:	09-022	Applicant	CWM .				Dare	ς.	4/28/09
		•					Town	n:	Lewiston
Investigator.	Trembath,	Schwabenbauer					Сощ	riy.	<u>Niagara</u>
			····				State	; -, <u>-</u>	<u>N4</u>
Do normal cire	cumstances ex	ist on site?	Yes No			Сопшиніту Туре	PFO	1 P.	55
Is the site signi	ificantly disto	rbed?	Yes No		Nearest	Flag To Data Point	m-2	2/	
Is the area a po	otential Proble	n Area?	Yes No	Data	Point ID: (Le	e. 2W@Wetland G)	1 W 1	0	wet. M
SOILS		:4	. 0	,	Λ				
Series and Pha	E56:		rade	197	<u>X</u>		Drainage Class:		WD MWD SPD PD VPD
Subgroup:							Confirm Mapped 7	[урс:	Yss № .
Depth I	Horizon	Matrix color		fottle color	/abundance	4	Texture, Structure, O	ther	· .
0-8	A	104R3/2	104	125/6	- 4	. Abund. :		lai	•
. 8+	ກ	LAUNS!		- r	10/	<u> </u>		,, /	,
	B	1071272	109	nyc	53/8,	Common		las	/
							·	/	
Hydric Soil Ind	licators:					-			
Histisols		Concretions				1	isted on Local Hydric	c Soils	List ·
Histic Epip	edon		entent in Surface	•	andy Soils	I	isted as Potential for	Hydri	c Inclusions Only
Sufidic Ode			king in Sandy S				Other (Explain in Ren	_	
Reducing C	Conditions	Gleyed or Lo	w Chroma color			— A	Aquic Moisture Regin	ne	
Landscape posic	tiou:	concave	X	convex	:	stoping	Арргох	imare	slope:
		flat	A	undulating	5	_			
				·		***************************************			
Remarks:									
				•				•	
HYDROLOGY									
		Describe in Remarks to Recorded Data Av	_		Field Obser		nundated /- Z	inc	hae
•		tream, Lake or Tide (•	>-	_ Ground Surrace 1 Soil Saturated.	инияси /-		ucs.
-		eriai Photographs	•	•					
	/(:	Depth to Free	Water O	nches.		
-				1	Depth to Satu	rrated Soils O	inches.		
Wetland Hydrolo	gy Indicators	:							
	mary Indicator	2		:	Secondary Inc	dicators (2 or more r			•
•		undated			-	- /	annels in upper 12 in	ches	
		turated in upper 12 i ater Marks	nches			Water-Stained lea	ves		
		ater Marks ift Lines			- V	Local Soil Survey Morphological Pla	ent Adaptations 🖈		
		diment Deposits				Other (Explain in)			
		ainage Patterns in W	etland			. + (,		
n									
Remarks: Av	rea in	undated	with	Doc	ckets	01 5 pm	rding was	per	in excess
	12"	deep.		L		U			
0+	12	acq.		X,	Butti	1855119	•		
edr office files\fo	nms\Data	Form Routine V							

Project Number: 09-022		Date:	4/28/09
Applicant: CWM		Plot ID Number:	I w @ wet. M
VEGETATION			
Dominant Plant Species:	Stratum; (circle one)	Indicator:	% Cover.
1 green ash	H S/S(T) V	FACW	50
2 I red maple	h s/s (T) v	FAC	25
3	H S/S T V		
4 green ash	h SST v	FACW	20
s willow should	н (s/s) т v	FACW	35
6	H S/S T V		
1 Common cattall	H S/S T V	OBL	50
8 Phragmites	⊕ s⁄s t v	FACW	30
9 West grass	⊕ s/s r v	FACW+	
10 <u>sedéps</u>	⊕ s⁄s r v	FACW/OBL	10
11	HI S/S T V		
12	H S/S T V	·	
13	H S/S T V		
14	H S/S T V		
15	H S/S T V		
16	HT S/S T V		

Percent of Dominant Species OBL, FACW, FAC	Percent	t of Dominant Species OB)	L, FACW
50/20 Rule A	applied? Yes No		
**************************************	tt ITADDaá s venné más som dellegn á þóð þóðsking 1944 i 1940 þód (1844), del þen en my	***************************************	
Remarks:			
		<u></u>	
VETLAND DETERMINATION			
Hydrophytic Vegetation Present? Yes or No	Hydric Soils Present?	Yes or No	
Wetland Hydrology Present? (Yes or No 35	Is this Sampling Point Within a V	<	} No
Hydrologic Connectivity to Off-site Wetlands?	Is this Wetland Potentially Isolate	7/	1
Remarks:		hoto Reference Number.	
·			
•			
		•	•

217 Montgomery Street, Suite 1000

DATA FORM

274 North Goodman Street

Syracuse, New York 13202

ROUTINE WETLAND DETERMINATION

. 1987 COE Wedands Delineation Manual	
Project No: 09-022 Applicant CWM	Date: 4/28/09
•	Town: Lewiston
Investigator: Trembath, Schwabenbauer	County: Niagara
	State: NY
Do normal circumstances exist on site? Yes No Community Type	maintained road edge
Is the site significantly disturbed? Yes No Nearest Flag To Data Point:	m-21
Is the area a potential Problem Area? Ye No. Data Point ID: (i.e. 2W@Wedland G)	I u P wet. m
SOILS O	
Series and Phase: Made land	Drainage Class: WD MWD SPD PD VPD
Subgroup:	Confirm Mapped Type: Wes No
Depth Horizon Matrix color Mottle color/abundance 0-164 A 104R 5/4 None	Texture, Structure, Other
D-101 A 1011C/4 /007-	<u> </u>
Hydric Soil Indicators:	•
	isted on Local Hydric Soils List
•	isud as Potential for Hydric Inclusions Only
	other (Explain in Remarks) .quic Moisture Regime
Landscape position: concave convex sloping	Approximate slope: 10-15
flat undulating undulating	
Remarks: - Area regularly maintained inspace removal, etc. * No hydric so	ted by mowing, snow
removal, etc. " No hydric so	il indicators noted.
	-
HYDROLOGY	
Recorded Data (Describe in Remarks) Field Observations No Recorded Data Available Ground Surface In	
No Recorded Data Available Ground Surface In Stream, Lake or Tide Gauge Soil Saturated.	nundated inches
Aerial Photographs	
•	ches.
Depth to Saturated Soils	inches. ·
Wefland Hydrology Indicators: Primary Indicators Secondary Indicators (2 or more r	
	equiren) minels in upper 12 inches
Saturated in upper 12 inches Water-Stained leav	
Water Marks Local Soil Survey	,
Drift Lines Monphological Plat Orther (Explain in F	- 4
Orient September 2 Context (September 2)	ر حسمت
Remarks: 110 we Hand hydrology moter	
No wetland hydrology noted.	
•	
edr office files\forms\Data Form Routine Wetland Determination.xls	

Project Number: 09-022	. =			Date:	4/28/09
Applicant: CWM	-		··	Plot ID Number:	1 u p wet, M
	·				
VEGETATION				· · · · · · · · · · · · · · · · ·	
Dominant Plant Species:	Strat	um; (circle	oac)	Indicator.	% Cover:
i fescues	(H)	S/S T	\mathbf{v}	FACU	
2 Orchard grass	A	S/S T	\mathbf{v}	FACIA	20
3 dandelion	Æ :	S/S T	\mathbf{v}	FACU-	
4 old held cinquetoil	5	S/S T	v	FACU-	5
5	الم	s/s T	v	F/ICM	
6		S/S T	v		· · · · · · · · · · · · · · · · · · ·
7		SVS T	v		 .
8		5/S T	v		
9		VS T	v	***************************************	
10	· н s	/S T	v		
11	H S	/s T	v		
12	n s	/s T	v		
13	тн 8.	/s T	v		
.14	H S	s t	v		
15	H S	S T	\mathbf{v}		
16	H S/	S T	\mathbf{v}		
Percent of Dominant Species OBL, FACW, FAC		**************	Percen	t of Dominant Species O	BL, FACW_(C)
50/20 Rule App	olied?	Yes No			
Remarks:					*
Acoumes.					
•					
WETLAND DETERMINATION					
Hydrophytic Vegetation Present? Yes o No	Hydric Soil	le Dracan	.a ·	Von a Na	
Wetland Hydrology Present? Yes of No			nt Within a '	Yes o (No) Wetland? Ye	
Hydrologic Connectivity to Off-site Wetlands? Yes or No WA)	_	ntially Isolat		s or No (N/4)
Remarks:	- 13 mil 14 CH			Photo Reference Number	
		•		•	

Syracuse, New York 13202

217 Montgomery Street, Suite 1000

DATA FORM

ROUTINE WETLAND DETERMINATION

274 North Goodman Street

Syracuse, New York 1320	12		AND DETERMINA clands Delineation Manual	TION	Rochester, New York 1460
Fi					2/20/00
Project No: 09-022	Applicant: (CW41		_ Date:	100109
				Town	LUNISTON
Investigator. Trembath	, Schwabenbauer		······································	_ County:	Niagara
				State:	
Do normal circumstances es	xist on site?	Yes) No	Community Type	PEM 11	?ss
In the size size it could be dist.		ىر «سىرى ،			-91
Is the site significantly distr		Yes No	Vearest Flag To Data Point	7/1	
Is the area a potential Proble	em Area?	Yes (So Data Point	D: (i.e. 2W@Wedland G)	LW	@ wet. M
SOILS .	14.4	0 1 0			
Series and Phase:	Ma	de land		Drainage Class:	WD MWD SPD PD VPD
Subgroup:		•	•	Confirm Mapped Type	. (Ca) No.
*				Contrim wabber 13he	(Ke) No
Depth Horizon	Matrix color	Mottle color/abuno	lance	Texture, Structure, Other	
0°13 H	1044-12	109K-76,	Few>+	Clay	•
13+ B	10425/2	104R5/E.	Common	Cla.	
	7-10-70	1011014	Common	7	
<u>.</u>			1	. 0	
Hydric Soil Indicators:					
Histisols	Concretions		;	Listed on Local Hydric Soi	le l'ist
Histic Epipedon		nt in Surface Layer of Sandy :		isted as Potential for Hydr	
Sufidic Odor		ng in Sandy Soils		Other (Explain in Remarks)	
Reducing Conditions	Gleyed or Low C	Chroma color		Aquic Moisture Regime	
	•				
Landscape position:	concave	convex	sloping	Approximat	e slope:
	flat	undulating	<u>×</u>	•	

Remarks:					
		-			·
DROLOGY					
Recorded Data	(Describe in Remarks)	Field	Observations		
1	No Recorded Data Avails	ible	Ground Surface I	nundated 1-2 in	ches.
s	Stream, Lake or Tide Gan	ige	Soil Saturated.		
F	Aerial Photographs		0		•
		Depth	to Free Wateri	nches.	
		Depth	to Saturated Soils O	inches	
Wetland Hydrology Indicator	5:			•	
Primary Indicato		Second	dary Indicators (2 or more :	required)	•
h	nndated		· / ·	annels in upper 12 inches	
<u> </u>	sturated in upper 12 inch	ies.	Water-Stained lear	ves	•
₩	ater Marks		Local Soil Survey		,
D	nift Lines		Morphological Pla	ant Adaptations 🗱 🕂	ummocky
	diment Deposits		Other (Explain in)		
D	rainage Patterns in Wells	mq.			
Remarks:					00L
_ /,	near de	ringge chan	me/ coi	14. culo	trate; gentles
- //	F-LPEF DE-	7		177 3000	754
	Ava wiid	1/2 = 9-21	A . Ann	South =	1-2 indait
r office files/forme/Data	Earn Pouting Mr	rec AUT	c ; //090	agoin -	21 7 - may

	Date: Plot ID Number:	4/28/09 2 w @ wet. M
	Indicator: FACW/OBL FACW + FACW FACW FACW FACFACW Of Dominant Species OBL	%Cover: 70 20 10 <55 10 10 FACW 100
Is this Sampling Point Within a V	Wetland? Yes	or No
	H S/S T V Percent Sited? Yes No	Stratum: (circle one) Indicator: FACW/OBL FACW + F

217 Montgomery Street, Suite 1000

DATA FORM

274 North Goodman Street

Syracuse, New York 13202	RC	OUTINE WETLAND DETERMIN 1987 COF Weslands Delineation Manual	VATION Rochester, New York 14607
Project No; 09-022	Applicant CWM		Date: 4/28/09
			Town: (ewiston
Investigator: Trembath,	Schwabenbauer		County: Viagara
<u> </u>			State: NY
Do normal circumstances exi	rist on site? Yes No	o Community Ty	PC NOF/SS
Is the site significantly disturb	<u> </u>	Nearest Flag To Data Poir	2.91
Is the area a potential Problem	3-2	Data Point ID: (i.e. 2W@Wedland (2 0 1 0
SOILS	made	land	TIM MANN CON PR UPP
Series and Phase:		1976 -	Drainage Class: WD MWD SPD PD VPD
Subgroup:			Continu Mapped Type: 😥 No
Depth Horizon	Matrix color / 10 4 PL 3/3	Mottle color/abundance	Texture, Structure, Other Fine Silt lown
7 9	1/2		Clay/FSL
9+ B	104R/4	None	Cray/ FSL
	l		
Hydric Soil Indicators:			
Histisols	Concretions	_	Listed on Local Hydric Soils List
Histic Epipedon		nriace Layer of Sandy Soils	Listed as Potential for Hydric Inclusions Only
Sufidic Odor	Organic Streaking in San	-	Other (Explain in Remarks)
Reducing Conditions	Gleyed or Low Chroma o	zolor	_ Aquic Moisture Regime
T January modificate	~ ~ ~ ~ ~ ~ ~ ~ ~	slonin	g Approximate slope:
Landscape position:	concave flat	convex sloping undulating	Approximate stope.
Remarks: //u /	Lie out	indicators moted.	•
700 pc	Marie Soil	INDICATORS MURIA.	
	,		
		·	
IYDROLOGY Recorded Data (I	n arbeit	Field Observations	
	(Describe in Remarks) No Recorded Data Available		T3-sad inches
	No Recorded Lana Available Stream, Lake or Tide Gange	Ground Surface Soil Saturated.	•
	Actial Photographs		•
		Depth to Free Water	inches.
		Depth to Saturated Soils	inches.
Wetland Hydrology Indicators	<u>.</u> .		
Wettana Hydrology Indicators Primary Indicators	•	Secondary Indicators (2 or mor	Transferance
•	nundated		Channels in upper 12 inches
	aturated in upper 12 inches.	Water-Stained 1	
	Vater Marks	Local Soil Surw	
	rift Lines		Plant Adaptations
	ediment Deposits	Other (Explain i	•
	rainage Patterns in Wetland		

Remarks:	vetland hydr	rology noted.	
No n	Dellaria .	777	
		O ,	
· · ·			•
dr office fleetformalDate	Form Routine Wetland	Determination vis	

	· · · · · · · · · · · · · · · · · · ·	T	
Project Number: 09-022		Date:	4/28/09
Applicant: CWM		Plot ID Number:	2 u @ wet. M
VEGETATION			
Dominant Plant Species:	Stratum: (circle one)	Indicator:	% Cover:
1 Sugar maple	H S/S T V	FACU-	25
2 black cherry	H S/S (T) V	FACU	10
3 huckthorn	H S/S(T) V	NL	70
Juce not it	H S/S T V		
4		50011	40
5 multi flora rose	H (S/S) T V	FACU	40
6 raspberry (blux)	H S/S T V	NL	
1 honey suille	H (SAS) T V	PACHACU	
8	H SAS T V		`
9 prchard grass		<u>FACU</u>	30
10 dandelion	(H) S/S T V	FACU-	<u>3</u>
11 White clover.	(H) S/S T V	FACU-	20
12	H S/S T V		,,,,,
	H S/S T V		
13	H S/S T V		
14	-		
15	H S/S T V		
16	H S/S T V		<u></u>
Percent of Dominant Species OBL, FACW, FAC 6		of Dominant Species OF	el, facw <u>O</u>
		79 A Walton Landon Land	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Remarks:			
VETLAND DETERMINATION		•	
Hydrophytic Vegetation Present? Yes or No	Hydric Soils Present? Y	es or No	· .
Wetland Hydrology Present? Yes or No	Is this Sampling Point Within a W	etland? Yes	o(No)
Hydrologic Connectivity to Off-site Wetlands? Yes or No	Is this Wetland Potentially Isolated	!? Yes	or No NA
Remarks:	Pi	oto Reference Number:	
		•	1

· DATA FORM

274 North Goodman Street

		-	•	
Syracuse	New	Y or	k-13202	-

ROUTINE WETLAND DETERMINATION

	1987 COE Wetlands Delineation Manua	
Project No: 09-022 Applicant	: CWM	Date: 429/09
	•	Town: Lewiston
Investigator: Trembath, Schwabenbauer		County: Nicgare
		State: NY
Do normal circumstances exist on site?	Yes No Community 1	
Is the site significantly disturbed?	Yes No . Nearest Flag To Data Po	
Is the area a potential Problem Area?	Yes No Data Point ID: (i.e. 2W@Wetland	1G) W @ Wet. N
SOILS O	viol silt loan	Drainage Class: WD MWI SPD PD VPD
Scries and Phase:	llic Endoaqualts	
Subgroup: MCC Mo	lic knowaquatis	Confirm Mapped Type: (Yes) No
Denth Horizon Matrix color	Mottle color/abundance	Texture, Structure, Other
0-2 0 1048/2	None	Organic layer
2+12 A 1042/2	104R96, Few >6"	Clay
12+ 3 10485/2	10425/4. Commen	Clay
Hydric Soll Indicators:		
HistisolsConcretions		Listed on Local Hydric Soils List
	Content in Surface Layer of Sandy Soils	Listed as Potential for Hydric Inclusions Only
	reaking in Sandy Soils	Other (Explain in Remarks)
Reducing ConditionsGleyed or L	.ow Chroma color	Aquic Moisture Regime
Landscape position: concave		·
flet _	undulating	
Remarks: - Area wowed	regular ly	
	l (
HYDROLOGY Percented Data (Describe in Remark)	rks) Field Observations	
Recorded Data (Describe in Remar No Recorded Data A		face Inundated inches.
Stream, Lake or Tid		
Aerial Photographs		n .
r	Depth to Free Water	inches.
	Depth to Saturated Soils	inches.
Wedand Hydrology Indicators:		•
Primary Indicators	Secondary Indicators (2 or:	- · · · · · · · · · · · · · · · · · · ·
Inundated Saturated in upper I.		oot Channels in upper 12 inches ted leaves
X Water Marks	Local Soil S	
Drift Lines		cal Plant Adaptations
. Sediment Deposits		ain in Remarks)
Drainage Patterns in	Wetland	
Remarks:	- <u></u>	
Hummocky	•	
l		
s:\edr office files\forms\Data Form Routin	e Wetland Determination xls	
0: 1001 Office mode of the first	10 F100000	

Project Number: 09-022 Applicent: CWM	· · · · · · · · · · · · · · · · · · ·		Date:	4/29/09 W@ wet.N
VEGETATION				
Dominant Plant Species:	Stratum: (&	rcle anel	Indicator:	% Cover;
1_ Phragmites		T V	FACU	95
2 Sedges	GE S/S		FACW OBL	5-
	_	r v	- FACOS TO BE	<u> </u>
3		r v		•
4		r v		
5				
6		r v		
7		r v	 	
8	H S/S 1			
9	H S/S 1	r V		
10	EI S/S 1	r v	· · · · · · · · · · · · · · · · · · ·	
11	H S/S T	T V		
12	PI S/S 1	r v		
13	14 S/S T	V		
14	H S/S 1	v		
15	H S/S T	v		
16	h s/s t	v		
Percent of Dominant Species OBL, FACW, FAC 100	<u></u>	Perce	nt of Dominant Species OBL, FA	4CW 100
50/20 Rule A		ło		
Remarks:		***************************************	141.11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	
WETLAND DETERMINATION			$\widehat{}$	
Hydrophytic Vegetation Present? (Yes or No	Hydric Soils Pres	ent?	Yes or No	
Wetland Hydrology Present? (Yes or No	Is this Sampling l	Point Within a	Wetland? Yesor N	ĺo l
Hydrologic Connectivity to Off-site Wetlands? Yeslon	Is this Wetland Po	otentially Isola	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u></u>
Remarks:			Photo Reference Number:	
•				

Environmental Design & Research DATA FORM 274 North Goodman Street 217 Montgomery Street, Suite 1000 Rochester, New York 14607 ROUTINE WETLAND DETERMINATION Syracuse, New York 13202 1987 COE Wedands Delineation Manual 4/29/09 Project No: ____09-022 Applicant: CWM Date: l ewiston Town Viagara County: Investigator. Trembath, Schwabenbauer States maintainea Community Type Do normal circumstances exist on site? Nearest Flag To Data Point. Is the site significantly disturbed? Is the area a potential Problem Area? Data Point ID: (i.e. 2W@Wetland G) SOTES Ovid sitt loam WD MWD SPD PD VPD Drainage Class: Series and Phase: Confirm Mapped Type: Yes No Mottle color/abundance Depth 0-10 NONE Hydric Soil Indicators: Listed on Local Hydric Soils List Histisols Listed as Potential for Hydric Inclusions Only Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Organic Streaking in Sandy Soils ___ Other (Explain in Remarks) Suffidic Odor ____ Aquic Moisture Regime Reducing Conditions Gleyed or Low Chroma color Approximate slope: Landscape position: - Area regularly mowed Remarks: - No hydric soil indicators noted. HYDROLOGY Recorded Data (Describe in Remarks) Field Observations Ground Surface Inundated_ No Recorded Data Available Soil Saturated. Stream, Lake or Tide Gauge Aerial Photographs Depth to Free Water____ Depth to Saturated Soils Wetland Hydrology Indicators: Primary Indicators Secondary Indicators (2 or more required) Oxidized Root Channels in upper 12 inches ____ Inundated Saturated in upper 12 inches. Water-Stained leaves ____ Local Soil Survey Water Marks Drift Lines ____ Morphological Plant Adaptations ____ Other (Explain in Remarks) Sediment Deposits _ Drainage Patterns in Wetland

Remarks:

No wetland hydrology noted.

s:\edr office files\forms\Data Form Routine Wetland Determination.xls

Project Number: 09-022		Date:	4/29/09
Applicant: CWM		Plot ID Number:	1 4 C wet. N
VEGETATION			
Dominant Plant Species:	Stratum: (circle one)	Indicator:	% Cover:
1 Jesques	H SAS T V	FACU	<u></u>
2 prennial rye grass	H S/S T V	FACU -	30
3 white clover)	_ (B) S/S T V	<u>Facu-</u>	
. 4	H S/S T V		
5	_ H S/S T V		
6	HS/STV		
7	H S/S T V		
8			
9	H S/S T V		
10	H S/S T V		
11	H S/S T V		
12	H S/S T V		
13	H S/S T V		
14	H S/S T V		<u> </u>
15	H S/S T V		
16	H S/S T V		V
	_ .cmllankudd011nuudddddad Kheebbyyyyyyyyyyyyyy	2 FG 54 G5 F7 G7-14 AMBRANGAMA 1171 11 MANAYA A 1 bish	
Percent of Dominant Species OBL, FACW, FAC_	Percent	of Dominant Species C	DBL, FACW_O
50/20 Ra	ıle Applied? Yes No		
	######################################		
Remarks:			
WETLAND DETERMINATION			
Hydrophytic Vegetation Present? Yes of No	•	(es or No	
Wetland Hydrology Present? Yes o No	Is this Sampling Point Within a V		es or(No
Hydrologic Connectivity to Off-site Wetlands? Yes or No Remarks:	N/A) Is this Wetland Potentially Isolate	d? Yo hoto Reference Numbe	es or No (NA)
(Antiburga)	•	LOS ALMANDO I MILLO	
•			
•			·

217 Montgomery Street, Suite 1000

DATA FORM

274 North Goodman Street

		D	,		
Sura	291CA	News	Cork	(3202	

Ø

ROUTINE WETLAND DETERMINATION

Project No: 69-022 Applicant: CWM Town: Lewist Nizse State: NY Do normal circumstances exist on site? Is the site significantly disturbed? Yes No Nearest Flag To Data Point: O - 16 Is the area a potential Problem Area? Yes No Data Point ID: (i.e. 2W@Wetland G)						
Investigator: Trembath, Schwabenbauer County: Notate: Notat	_					
State: NY						
Is the site significantly disturbed? Is the area a potential Problem Area? Yes No Data Point ID: (i.e. 2W@Welland G) Data Point ID: (i.e. 2W@Welland G) SOILS Series and Phase: Confirm Mapped Type: No Mortile color/abundance Confirm Mapped Type: No						
Is the area a potential Problem Area? Yes No Deta Point ID: (i.e. 2W@Wetland G) W C UST. O						
SOILS Series and Phase: Male Lac Drainage Class: WD MWD SPD PD Subgroup: Confirm Mapped Type: B No Depth Horizon Matrix color Mottle color/abundance O-5 O 1648/2 Nove Organi's layer 5-14 A 1048/3 1048/6 Few Si' Clay grave/ Ith B 1648/1 1048/6 Few Si' Clay grave/ Hydric Soil Indicators: Histic Epipedon Suffdic Color Suffdic Color Granic Structure, Other Organi's layer Listed on Local Hydric Soils List Listed as Potential for Hydric Inclusions Only Reducing Conditions Gleyed or Low Chroma color Landscape position: Concave Convex Stoping Approximate slope: Indicators: Landscape position: Concave Convex Stoping Approximate slope:						
Scries and Phase: Male Low Drainage Class: WD MWD SPD PD Subgroup: Confirm Mapped Type: Po No Depth Horizon Matrix color Montle color/abundance Texture, Structure, Other O-5 O 1474/2 Nowl Organic layer 5-14 A 1048 3/2 1048 5/6 Few 8" Clay grave/ Lift B 1648 1048 1048 5/6 Sold Indicators: Histisols Histis Epipedon High Org. Content in Surface Layer of Sandy Soils Suffidic Odor Organic Streaking in Sandy Soils Other (Explain in Remarks) Reducing Conditions Gleyed or Low Chroma color Sloping Approximate slope: I and scape position: Concave Concex Sloping Approximate slope: Induction Surface Layer of Sandy Soils Sloping Approximate slope: I and Scape position: Concave Concex Sloping Approximate slope:						
Subgroup: Confirm Mapped Type: No						
Depth Horizon Matrix color Months color/abundance Texture, Structure, Other O-5 O 14472 Nove Organic layer 5-14 A 1048 3/2 1048 5/2 Few 8" Clay grave/ 144 B 1648 1048 5/2 1048 5/2 Common Clay Hydric Soil Indicators: HisticsHistic Epipedon	VPD					
O-5 O 14 12 None Organic layer						
S-14 A 104k 3/2 104k 5/6 Few > 8" Clay grave						
Hydric Soil Indicators: Histisols Histisols Histic Epipedon Suffdic Odor Reducing Conditions Listed on Local Hydric Soils List Listed as Potential for Hydric Inclusions Only Organic Streaking in Sandy Soils Reducing Conditions Concave Convex Sloping Approximate slope: Induction of the concave of the convex of						
Hydric Soil Indicators:						
Histisols						
in part of the area. well defined banks.	Reducing Conditions Gleyed or Low Chroma color Aquic Moisture Regime Landscape position: concave Convex sloping Approximate slope: undulating					
- organic substrate in dramage (teaves, grass, etc.)						
YDROLOGY X Recorded Data (Describe in Remarks) Field Observations X Ground Surface inundated inches.						
Wetland Hydrology Indicators: Primary Indicators Inundated X Oxidized Root Channels in upper 12 inches X Water-Stained leaves Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetland Secondary Indicators (2 or more required) X Oxidized Root Channels in upper 12 inches X Water-Stained leaves Local Soil Survey X Morphological Plant Adaptations Other (Explain in Remarks)						
Drainage ditch leading from roadside, under road, to off-site wetland area. * Buttressing Avg. width = 8-10 ft. Buttressing Avg. depth: 3-4 in. Gentle flow of gradient						

VEGETATION Dominant Plant Species: 1 (ld Ward)	Stratum: (circle one) H S/S (T) V		
2 green ash 3 Cottonwood 4 5 Noney Suckle 6 7 Wild grape 8 9 No herbaceous layer 10 11 12 13 14 15 16 Percent of Dominant Species OBL, FACW, FAC 90 + 50/20 Rule Ap	H S/S T V Percent	FAC	%Cover: 20 40 30 25 26 Acw_~60
Remarks:			
WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes or No Wetland Hydrology Present? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Remarks:	Hydric Soils Present? (Is this Sampling Point Within a Is this Wetland Potentially Isolat		_

DATA FORM

274 North Goodman Street

Syracuse, New York 13202

ROUTINE WETLAND DETERMINATION

1987 COE Wetlands Delineation Manual				
D 10037 00 000 A 11 to CONTAC	Date: 4/29/06			
Project No: 09-022 Applicant CWM				
	Town: Lewiston			
Investigator: Trembath, Schwabenbauer	County: Niagara			
·	State: NY			
	NDF/SS			
Do normal circumstances exist on site? Yes No Community Type_	1011/33			
Is the site significantly disturbed? Yes (No) Nearest Flag To Data Point:	0-16			
Is the area a potential Problem Area? Yes No Data Point ID: (i.e. 2W@Wetland G)	1 " Co wet. O			
SOILS AA O L O				
Series and Phase: Make land	Drainage Class: WD MWD SPD PD VPD			
Subsumm	Confirm Mapped Type: Yes No			
Subgroup: C	outtin truther rate 22 va			
1 '	xture, Structure, Other			
0-5 A 10423/3 None	Silt loom			
5+ B 104R 1/3 None	001/61			
5+ B 104R/3 None	Silt/Clay			
	' 1			
Hydric Soil Indicators:				
<u> </u>	ted on Local Hydric Soils List			
	ted as Potential for Hydric Inclusions Only			
	ner (Explain in Remarks)			
Reducing ConditionsGleyed or Low Chroma color Aq	uic Moisture Regime			
Landscape position: concave convex sloping	Approximate slope:			
flat undulating X				
Remarks:				
Remarks: No hydric soil indicators noted				
' J				
HYDROLOGY				
Recorded Data (Describe in Remarks) Field Observations				
No Recorded Data Available Ground Surface Int	undatedinches.			
Stream, Lake or Tide Gauge Soil Saturated.				
Acrial Photographs Depth to Free Water inc	ches.			
Depth to Saturated Soils	inches.			
Wetland Hydrology Indicators:				
Primary Indicators Secondary Indicators (2 or more re				
Inundated Oxidized Root Channels in upper 12 inches				
Saturated in upper 12 inches Water-Stained leaves				
Water Marks Local Soil Survey				
Drift Lines Morphological Plan	-			
Sediment Deposits Other (Explain in R	cmarks)			
Drainage Patterns in Wetland	· [
Remarks;	12-0-0-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1			
Ma watland budgelon, wated	-			
No wetland hydrology noted.				
٠ ١				
e-ladr office files/forms/Data Form Routine Watland Determination vis				

Project Number: 09-022 Applicant: CWM		Date: L	19/09 1 u @ Wet. 0
VEGETATION Dominant Plant Species: 1	Stratum: (circle one) H S/S T V H S/S T V	Indicator: FAC FACU NL FAC FACU FACU FACU	% Cover: 25 25 35 30 10 20
14	H S/S T V H S/S T V	nt of Dominant Species OBL, F	ACW
Remarks:			-
WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes or No Wetland Hydrology Present? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Remarks:	Hydric Soils Present? Is this Sampling Point Within a A Is this Wetland Potentially Isola	`	

217 Montgomery Street, Suite 1000

DATA: FORM

774 North Goodman Street

Syracuse, New York 13202	ROUTINE WETLAND DETERMINA 1987 COE Wetlands Delineation Manual	TION Rochester, New York 14607			
Project No: 69-022 Applicant:		Date: 429/69 Town: Lewiston County: Nicsare			
		State: NY PSM			
Do normal circumstances exist on site?	Yes No Community Type				
Is the site significantly disturbed?	Ye No Nearest Flag To Data Point:	P-20			
Is the area a potential Problem Area?	Yes (No Data Point ID: (i.e. 2W@Wetland G)	I W @ wet-P			
SOILS					
Series and Phase:	de land	Drainage Class: WD MWD SPD PD VPD			
Subgroup:		Confirm Mapped Type: (S)No			
Depth Horizon Matrix color	Mottle color/abundance	Texture, Structure, Other			
0-3 0 104R42	Nenie	Silt loan forganic			
3-13 A 104R3/2	1048 /4. Few >7"	Clay			
13+ B 104R5/2	1078 % Common	Clay			
Sufidic OdorOrganic Str	ontent in Surface Layer of Sandy Soils laking in Sandy Soils (Listed on Local Hydric Soils List Listed as Potential for Hydric Inclusions Only Other (Explain in Remarks) Aquic Moisture Regime Approximate slope:			
Remarks: - regularly mod	ed are:				
HYDROLOGY					
Recorded Data (Describe in Remar No Recorded Data A Stream, Lake or Tid Aerial Photographs	vailable	inchesinches.			
Wetland Hydrology Indicators: Primary Indicators	Secondary Indicators (2 or more	required			
Inundated	Oxidized Root C	hannels in upper 12 inches			
Saturated in upper 12 inches. Wher-Stained leaves					
Water Marks Drift Lines		y Iant Adaptations **			
Sediment Deposits	Other (Explain in				
Drainage Patterns in	Wetland &				
Remarks: Pockets of s	tanding water. * Buttr	essing &			

s:\edr office files\forms\Data Form Routine Wetland Determination.xls

Project Number: 09-022 Applicant: CWM		Date: Plot ID Number:	4/29/09 1 w @ wet.P
	•		
VEGETATION			
Dominant Plant Species:	Stratum: (circle cue)	Indicator:	% Cover:
1 red maple	н s/s (т) v	<u>FAC</u>	<u> 40</u>
2 green ash	н s/s(т) v	<u>FACW</u>	<u> 3 </u>
3	H S∕S T V		
4 Sedges	(H) S/S T V	FACW/OBL	<u> 70 </u>
5 perennial rye grass	(H) S/S T V	FACU-	<u> </u>
6	H S/S T V		
7	H S/S T V		
8	H S/S T V		
9	.н s/s т v		
10	HS/STV		
11	H S/S T V	···-	
12	H S/S T V		
13	HS/STV.	······································	•
14	H S/S T V		
15	H S/S T V		
16	H S/S T V		<u> </u>
		<u> </u>	
Percent of Dominant Species OBL, FACW, FAC 296	Percent	of Dominant Species OI	3L, FACW_~65
50/20 Rule A	pplied? Yes No		
(##################################	***************************************	wd.p.g.pv=================================	488-554-51- 00-5-55- 14-55-5-5-5-
Remarks:			
		×	
WETLAND DETERMINATION		_	
Hydrophytic Vegetation Present? Ves or No	Hydric Soils Present?	es dr No	
Wetland Hydrology Present? (Yes dr No	Is this Sampling Point Within a W	Tetland? Yes	or No
Hydrologic Connectivity to Off-site Wetlands? Yes or No	Is this Wetland Potentially Isolate	100.01 100.01 140.011 106.00.00.00.00.00.00.00.00.00.00.00.00.	or No
Remarks:	P	hoto Reference Number	
•			
	•		

217 Montgomery Street, Suite 1000 Syracuse, New York 13202

DATA FORM

274 North Goodman Street '

Syracuse, New	York 13202		RO	UTINE WETLAND DETERMINAT 1987 COE Wetlands Delineation Manual	ITON Rochester, New York 14607	
Project No:	09-022	Applicant _	CWM		Date: 4/19/09	
-					Town: Lewiston	
Investigator:	Trembath,	Schwabenbauer		·	County: Niagara NY	
		***************************************		physics of specific and a management a sinus a second distribution of the specific for the second state of		
Do normal circu	imstances ex	ist on site?	(€s) №	Community Type_	maintained lawn	
Is the site signif	_		(Ye) №	Nearest Flag To Data Point	P.20 In @ wet. P	
Is the area a pot	ential Problem	n Area?	Yes(No)	Data Point ID; (i.e, 2W@Wetland G)	/ W (& Wei. F	
SOILS				^		
Series and Phas	se:	Ma	<u>De</u>	land	Drainage Class: WD MWD SPD PD VPD	
Subgroup:					Cunfirm Mapped Type: Yes No	
Depth H	łorizon	Matrix color		Mottle color/abundance	Texture, Structure, Other	
0-4	A	104x 3/3		None ·	organic layer / Silt loan	
4-10	8	10704/3		None	Fine Silt loam \$ 5 ome Clay	
10+	C	107R5/2		None	Clay	
Hydric Soil Indi	icators:				/	
Histisols Histic Epipe	edon	Concretions High Org. Con	itent in Sur		Listed on Local Hydric Soils List Listed as Potential for Hydric Inclusions Only	
Sufidic Odd Reducing C		Organic Stream			Other (Explain in Remarks) Aquic Moisture Regime	
		022/04/01/20/	Olivina er			
Landscape posit	tion:	concave flat		convex sloping undulating	Approximate slope:	
Remarks:	 i∴∧M	ed regular	у .	M. hudere so	oil indicators noted.	
	1100	7 (70. 29	·	
			`			
HYDROLOGY						
X		(Describe in Remarks No Recorded Data Av		Field Observations Ground Surface 1	Inundated inches.	
_		Stream, Lake or Tide (Soil Saturated.		
_		Acrial Photographs		Depth to Free Wateri	inches.	
				Depth to Saturated Soils	inches.	
Wetland Hydrolo				G I	A	
Pn	imary Indicat	ors Inundated		Secondary Indicators (2 or more Oxidized Root Cl	required) hannels in upper 12 inches	
Saturated in upper 12 inches Water-Stained leaves						
	Water Marks Local Soil Survey Drift Lines Morphological Plant Adaptations					
		Drift Lines Sediment Deposits		Other (Explaintin		
		Orainage Patterns in W	etland		· dia.	
Remarks:				a }		
	$N_{\mathfrak{d}}$	wetland	hyi	drology noted.	. Sec	
	, -	4001124-101	U	Jl	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
s:\edr office files\f	forms\Dat	a Form Routine	Wetland	Determination.xls		

Project Number: 09-022		Date:	4/29/09
Applicant: CWM		Plot ID Number:	1 4 @ wet. P
VEGETATION			
Dominant Plant Species:	Stratum: (circle one)	Indicator:	% Cover:
1 perennicl ryz grass	H SAS T V	FACU-	50
2 dandelion	H S/S T V	FACU-	/0
3 white clover	ES T V	EACU-	20
4 Common Vetch	Æ si⁄s ⊤ v	FACU-	/0
5 fescues	By S/S T V	FACU	10
6	H S/S T V		
7	H S/S T V	· · · · · · · · · · · · · · · · · · ·	
8	H S/S T V		
9	H S/S T V		
10	H S/S T V		
11	H S/S T V		
12	H S/S T V	<u> </u>	
13	H S/S T V		
14	HS/STV		
15	n s/s t v		
16	H S/S T V		
10		**************************************	
Percent of Dominant Species OBL, FACW, FAC 0 50/20 Rule App		of Dominant Species OBI	, facw <u></u>
		Material 2017 - 100 - 10	. P. P. F. H. F.
Remarks:		·	
•			
	•		
WETLAND DETERMINATION		. (1)	
Hydrophytic Vegetation Present? Yes on No		Yes of No	
Wetland Hydrology Present? Yes or No.	Is this Sampling Point Within a W		
Hydrologic Connectivity to Off-site Wetlands? Yes or No(N/A) Remarks:	Is this Wetland Potentially Isolate	d? Yes of thoto Reference Number:	or No (U/A)
	•	4	
:			li i

NYSDEC OHMS Document No. 201469232-00006 Environmental Design & Research DATA FORM 274 North Goodman Street 217 Montgomery Street, Suite 1000 ROUTINE WETLAND DETERMINATION Syracuse, New York 13202 Rochester, New York 14607 1987 COE Wetlands Delineation Manual 4 29 09 Project No: 09-022 Applicant CWM Town: Niagara Investigator: Trembath, Schwabenbauer County: State: PFO/PEM Community Type Do normal circumstances exist on site? Q-2 Is the site significantly disturbed? Nearest Flag To Data Point: Wa Is the area a potential Problem Area? Data Point ID: (Le. 2W@Wetland G) SOILS WD MWD SPD PD VPD Drainage Class: Series and Phase: Confirm Mapped Type: Yes No Subgroup: Mottle color/abundance Texture, Structure, Other Depth Houzon Matrix color 104R 7/2 0 Noneorganic 12+ Common Hydric Soil Indicators: Listed on Local Hydric Soils List Histisols Concretions Histic Epipedon High Org. Content in Surface Layer of Sandy Soils Listed as Potential for Hydric Inclusions Only Other (Explain in Remarks) Sufidic Odor Organic Streaking in Sandy Soils _Gleyed or Low Chroma color __ Aquic Moisture Regime Reducing Conditions Approximate slope: Landscape position: undulating Remarks: - Area regularly moved. HYDROLOGY Field Observations Recorded Data (Describe in Remarks) ✓ Ground Surface Inundated 1-2 inches. No Recorded Data Available Soil Saturated. Stream, Lake or Tide Gauge Acrial Photographs Depth to Free Water O inches. Depth to Saturated Soils 0 Wetland Hydrology Indicators: Secondary Indicators (2 or more required) **Primary Indicators** Immdated Oxidized Root Channels in upper 12 inches ✓ Water-Stained leaves Saturated in upper 12 inches. Local Soil Survey Water Marks

Remarks: Buttressing . Packets of standing water > 6" deep.

Morphological Plant Adaptations

__ Other (Explain in Remarks)

s:\edr office files\forms\Data Form Routine Wetland Determination xis

Drift Lines

__ Sediment Deposits __ Drainage Patterns in Wetland

Project Number: 09-022 Applicant: CWM		Date: Plot ID Number:	1/29/09 1 w @ wet. Q
VEGETATION Dominant Plant Species: 1	Stratum: (circle one) H S/S T V H S/S T V	Indicator: FACW FACW/OBL OBL OBL	% Cover: 35 25 25 /0 %0
13 14 15	H S/S T V H S/S T V H S/S T V		
Percent of Dominant Species OBL, FACW, FAC		of Dominant Species OB	l, facw_ 80 +
Remarks:			
WETLAND DETERMINATION Hydrophytic Vegetation Present? (Yes or No Wetland Hydrology Present? (Yes or No Hydrologic Connectivity to Off-site Wetlands? (Yes or No Remarks: Applars to be linked by a a buried culvert pipe (a)	Is this Sampling Point Within a W Is this Wetland Potentially Isolated	d7 Yes	or No o(No) through

217 Montgomery Street, Suite 1000

DATA FORM

274 North Goodman Street

Syra	cuse, N	w York 1320	2	RO	UTINE WETLAND DETERMIN 1987 COE Wetlands Delineation Manual	ATION	Rochester, New York 14607
Proj	ect No:	09-022	Applicant.	CWM		Date:	4/29/09
						Town:	Lewiston
Inve	stigator.	Trembath	, Schwabenbauer			County:	Niagara
 			************************************			State:	NY NY
Don	ormal ci	rcumstances e	cist on site?	Yes No	Community Typ	mainta	ired lawn
Is the	e site sig	nificantly distr	rbed?	Yes No	Nearest Flag To Data Poin	7)- <u> </u>
Is the	area a.p	otential Proble	an Area?	Yes No	Data Point ID: (i.e. 2W@Wetland C	G) / 4 (2 wet. Q
SOILS							
	s and Pl	100e*	mad	منان	silt loan	Drainage Class:	WD MWD SPD PD VPD
Subg					Endoquelfs	Confirm Mapped Type:	
	_		<u> </u>				
Depth	· 7	Horizon A	Matrix color 10 4R 3/3		Mottle color/abundance	Texture, Structure, Other Cla	
∦ —	,, }+		10 YR 4/4		None	21	7
	7 7	<u> 45</u>	1011019		None	Clar	
 			<u> </u>			<u> </u>	
11 -		dicators	Q			Listed on Local Hydric Soils	Tiet
H	listisols listic Epi	ipedon	Concretions High Org. Co	netent in Sorf	ace Layer of Sandy Soils	Listed as Potential for Hydric	•
]!	ufidic O			aking in Sand	 -	Other (Explain in Remarks)	
— K	equeing	Conditions	Gleyed or Lo	w Chroma co	ior	Aquic Moisture Regime	
Lands	Landscape position: concave convex sloping Approximate slope:						
Remarks:							
Kettar	. KS.	- A1	rea regu	larly	mowed		
	No hydric soil indicators noted.						
		<u> </u>					
HYDROLC		Peneded Data	(Describe in Remarks	A.	Field Observations		
			No Recorded Data Av	•	Ground Surface	e Inundatedinc	ines.
	_		Stream, Lake or Tide Aerial Photographs	Gauge	Soil Saturated.		
	_		MC124 FROUGRAPIIS		Depth to Free Water	_inches.	
					Depth to Saturated Soils_	inches.	
Wetland	-	logy Indicator					
H	Primary Indicators Secondary Indicators (2 or more required) Inundated Oxidized Root Channels in upper 12 inches						
	Saturated in upper L2 inches. Water-Stained leaves						
Water Marks Local Soil Survey							
			orift Lines ediment Deposits		Morphological I Other (Explain i	Plant Adaptations in Remarks)	
			rainage Patterns in W	etland			
Remarks		w		<u>, </u>			
No wetland hydrology noted.							
				U			
s:\edr office	e files\	forms\Data	Form Routine	Wetland I	Determination.xls		

Project Number: 09-022 Applicant: CWM		Date: 4/29/09 Plot ID Number: / u @ wef-Q
Dominant Plant Species:		Indicator: % Cover: FACU 50 FACU 50 FAC 25 Of Dominant Species OBL, FACW 0
Remarks:	· ;	·
WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes or No Wetland Hydrology Present? Yes or No Hydrologic Connectivity to Off-site Wetlands? Yes or No Remarks:	Is this Sampling Point Within a W	