

**Chevron Environmental Management
Company**

Wetland Delineation Report

Golden Road Disposal Site

June 2007

**Chevron Environmental Management
Company**

Wetland Delineation Report

Golden Road Disposal Site

June 2007

1. Introduction	1
2. Information Review	2
2.1 Topographic Mapping	2
2.2 Monroe County Soil Information	2
2.3 New York State Freshwater Wetlands Map	3
2.4 National Wetlands Inventory Map	4
3. Field Investigation	5
3.1 General Site Description	5
3.2 Vegetation Assessment	5
3.3 Soil Assessment	6
3.4 Hydrology Assessment	6
3.5 Wetland Identification Methodology	7
4. Wetland Identification Results	8
5. References	9

Figures

1	Site Location Map
2	Soil Survey Map
3	New York State Freshwater Wetlands Map
4	National Wetlands Inventory Map
5	Identified Wetlands Boundaries

Appendices

A	Wetland Photographs
B	Field Data Forms

1. Introduction

This *Wetland Delineation Report* (report) presents the results of a wetland identification and boundary delineation performed by ARCADIS of New York, Inc. (ARCADIS BBL, formerly known as Blasland, Bouck & Lee, Inc. [BBL]) for the Chevron Environmental Management Company (Chevron) located on Golden Road in the Town of Chili, New York (Figure 1). Field activities for the wetland evaluation were performed on December 4, 2006 within the limits of the wetland assessment area presented on Figure 1. The wetland identification and boundary delineations were performed in accordance with the Routine Determination Method presented in the 1987 *Corps of Engineers Wetlands Delineation Manual* (Manual) (Environmental Laboratory, 1987). The Manual presents the current federal methodology for delineating federally-regulated wetlands. The federal methodology was also used to identify the boundaries of wetlands regulated by the New York State Department of Environmental Conservation. The Manual defines wetlands as those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and which under normal conditions do support, a prevalence of vegetation typically adapted for life in saturated soil conditions (Environmental Laboratory, 1987). Wetland delineation methods presented in the Manual require areas identified as wetlands to meet all of the following criteria:

- the dominant vegetation is hydrophytic (water tolerant)
- the soils are hydric or possess reducing soil characteristics
- the area is either permanently or periodically at mean water depths less than or equal to 6.6 feet, or the soil is saturated to the surface at some time during the growing season of the prevalent vegetation

The Routine Determination Method combines information gathering and review with on-site evaluation of field characteristics to identify and delineate wetland boundaries. Descriptions of the information gathering and on-site activities are presented in the following sections.

2. Information Review

The information review consisted of obtaining and reviewing the following sources of environmental information for the site:

- United States Geologic Survey (USGS) Topographic Quadrangle – Clifton Quadrangle, New York (USGS, 1976)
- Soil Survey of Monroe County, NY (United States Department of Agriculture [USDA], 1973)
- Monroe County Hydric Soils List (USDA, 2006)
- New York State Freshwater Wetland Map, Clifton Quadrangle, New York (New York State Department of Environmental Conservation [NYSDEC], 1994)
- National Wetlands Inventory map, Clifton Quadrangle, New York (United States Department of the Interior [USDI], 2006)

Information obtained from these sources is discussed in the following sections.

2.1 Topographic Mapping

The USGS topographic map of the Clifton Quadrangle, New York shows the location of the site north of Interstate 490 and south of a Penn Central railroad line. General topography slopes to the northwest, with the lowest elevation in the vicinity of the site being approximately 560 feet above mean sea level. A small pond is shown in the southwestern portion of the assessment area and a large wetland system is shown to be present west of the site (Figure 1). No streams or rivers are visible on or in the immediate vicinity of the site.

2.2 Monroe County Soil Information

The Monroe County soil survey (USDA, 1973) provides information regarding the mapped soil types in the wetland assessment area (Figure 2). As shown, the soil series mapped in the wetland assessment area consist of Cosad loamy fine sand (Cu), Muck soils (Ms) and Made land (Mb). The mapped soil types were compared to the list of hydric soils in Monroe County (USDA, 2006) to determine if the mapped soils were

hydic or contained potential hydic inclusions. Ms were the only hydic soil present on site. Descriptions of these soil types are provided below.

Soils of the Cu series are made up of deep, somewhat poorly drained, coarse-textured, level soils that are classified as Aquic Udorthents (USDA, 1973). The A horizon (0 to 8 inches) of this soil is typically very dark grey (10YR 3/1 – Munsell color descriptor indicating hue value/chroma) loamy fine sand. The A2 horizon (8 to 13 inches) is typically light yellowish-brown (2.5Y 6/4) loamy fine sand. The Cu soil series is not listed as a hydic soil in Monroe County (USDA, 2006). Cu soils are located in the eastern portion of the wetland assessment area.

Ms are deep to shallow, very poorly drained, organic soils developed in depressions or old glacial swamps from woody and fibrous plant remains (USDA, 1973). From 0 to 23 inches, Ms are black (10YR 2/1) well decomposed muck (USDA, 1973). The B horizon (11 to 23 inches) contains more than 20 percent reddish-brown (5YR 4/3) woody plant remains (USDA, 1973). Ms are listed as a hydic soil in Monroe County and are located in the western portion of the wetland assessment area (USDA, 2006).

Mb consists of areas that have been filled with waste, such as stone, old masonry material, bricks and tree stumps (USDA, 1973). Mb has a wide range of variability and some areas have been covered with a thin mantle of soil material (USDA, 1973). Mb is not listed as a hydic soil in Monroe County (USDA, 2006). Mb soils are located in a small area surrounded by Ms in the western portion of the wetland assessment area.

2.3 New York State Freshwater Wetlands Map

The New York State Freshwater Wetlands Map (NYSFWM) for the Clifton Quadrangle is presented on Figure 3. The NYSFWM shows a small portion of a state-regulated wetland, designated CI-3, present in the northwest portion of the wetland assessment area. Portions of this wetland exist on both sides of Interstate 490 and on both sides of the Conrail railroad line (Figure 3). This wetland is approximately 229 acres in size. Information obtained from the NYSDEC regarding Wetland CI-3 indicates the presence of a Class C stream that runs through the wetland and the portion of the wetland in the wetland assessment area (NYSDEC, 2006). This stream enters the wetland from the east, becomes unidentifiable in the wetland and then exits to the west eventually becoming a tributary to Black Creek.

2.4 National Wetlands Inventory Map

The National Wetlands Inventory (NWI) Map for the Clifton Quadrangle is presented on Figure 4. The NWI Map indicates the boundaries of wetlands inventoried by the United States Fish and Wildlife Service (USFWS) to monitor changes in waterfowl habitat and do not have regulatory significance other than indicating the locations of areas potentially meeting the federal wetland criteria. The NWI Map identifies large wetland systems south and west of the wetland assessment area with a portion of one wetland extending eastward into the assessment area (Figure 4). The wetland in the wetland assessment area is classified as a palustrine, forested, broad-leaved deciduous, seasonally saturated wetland (PFO1E) (USDI, 2006). Other NWI wetland types in the vicinity of the assessment area consist of a palustrine, seasonally saturated wetland with persistent emergent vegetation (PEM1E) and a palustrine, seasonally saturated wetland with a combination of deciduous broad-leaved scrub/shrub vegetation and persistent emergent vegetation (PSS1/EM1E) (USDI, 2006).

3. Field Investigation

3.1 General Site Description

The field investigation component of the wetland assessment was performed by BBL on December 4, 2006. The area evaluated for the presence of wetlands is shown on Figure 1. Observations of site conditions indicated that a large portion of the assessment area consisted of fill material overgrown with woody vegetation. A central depression in the fill was observed to contain standing water. Areas in the western and southern portions of the assessment area were inundated with approximately 1 foot of water and were forested with trees averaging 6 inches in diameter. The wetland assessment was performed by walking the site and looking for any one of the three indicators of wetlands. When the soil, vegetation or hydrology characteristics of an area indicated a potential wetland, that area was further evaluated to determine if all three wetland criteria were met. If all three criteria were met, the area was identified as a wetland. The following sections describe the field characteristics that were used to evaluate and delineate wetlands found in the assessment area.

3.2 Vegetation Assessment

The criterion for wetland vegetation is a dominance of hydrophytic (water tolerant) species. A species is considered hydrophytic if it is classified as obligate (OBL), facultative wet (FACW) or facultative (FAC) in the *National List of Plant Species That Occur in Wetlands* published by the USFWS (1996). A dominance of hydrophytic vegetation requires that greater than 50 percent of the vegetation in an area be hydrophytic. In accordance with the Manual (Environmental Laboratory, 1987), observations of vegetation focused on dominant plant species for four strata: trees (greater than or equal to 3 inches in diameter at breast height), saplings/shrubs (less than 3 inches in diameter at breast height and greater than 3.2 feet tall), herbs and woody vines. Dominant species are the most abundant plant species that immediately exceed 50 percent of the total dominance measure for the stratum, plus any additional species comprising 20 percent or more of the total dominance measure for the stratum. Dominant vegetative species of the plant communities were recorded by ARCADIS BBL on field data forms (Attachment 2) and evaluated for the percentage of hydrophytic vegetation for wetland determinations. Vegetative communities dominated by hydrophytic vegetation were concluded to meet the vegetation criterion for wetlands.

3.3 Soil Assessment

Site-specific soil characteristics were evaluated for consistency with the hydric soil series description presented in the soil survey (USDA, 1973) or for the presence of hydric soil field indicators. Investigatory boreholes were manually advanced with a Dutch auger at sample plots to a depth of at least 12 inches to evaluate soil characteristics. Observed soil characteristics of texture, degree of saturation, matrix color and the presence and color of mottles, when present, were recorded on field data forms (Attachment 2). Soils that were confirmed to be the hydric soil types mapped in the soil survey or that exhibited field indicators of hydric soils were concluded to meet the hydric soil criterion for wetlands.

3.4 Hydrology Assessment

According to the Manual, wetland hydrology consists of permanent or periodic inundation or soil saturation to the surface during the growing season. Hydrology can be evaluated by observing field conditions for the presence of primary and/or secondary hydrology indicators. Primary field indicators used to evaluate the presence of wetland hydrology included:

- ground surface inundation or evidence of inundation
- saturated soils within 12 inches of the ground surface
- standing water within 12 inches of the ground surface in investigatory boreholes
- drift lines
- evidence of drainage patterns

The project area was examined for field indicators of wetland hydrology. If these indicators were present within the sample plots, the hydrology criterion for wetlands was concluded to be met. Hydrologic indicators within the sample plots were recorded on field data forms (Attachment 2).

3.5 Wetland Identification Methodology

Wetland criteria evaluations were conducted in data collection plots within areas exhibiting potential wetland characteristics. Field data sheets were completed and evaluations of soil, hydrology and vegetation characteristics were performed along the wetland/upland interface to locate and refine the wetland boundary. Sample plot data were not documented on report forms if they were consistent with the conditions previously documented for the area. The identified wetland boundaries were flagged with sequentially numbered wetland delineation tape. The flag locations were subsequently surveyed and their locations transferred onto the identified wetland boundaries figure to depict the identified wetland boundaries (Figure 5). Field data forms documenting the observed field characteristics that resulted in the identified wetlands are included in this report as Attachment 2.

4. Wetland Identification Results

The results of the wetland assessment and boundary delineation at the site indicated the presence of a forested wetland along the western, southern and eastern limits of fill material on site. In addition, a small pond near the center of the fill material was found to be in direct hydraulic connection with the forested wetland, which includes the pond as a component of the regulated wetland. Only the boundary of the portion of the wetland adjacent to the fill material of the site was delineated. Dominant vegetation of the forested wetland consisted of red maple, green ash, sensitive fern and reed canary grass (see Attachment 2). The wetland was inundated with up to 12 inches water and exhibited saturated soils to the ground surface along its boundary (see Attachment 2). Muck was the dominant soil type observed in the wetland, with black organic material observed to depths of up to 24 inches (see Attachment 2). The wetland boundary was marked with consecutively numbered flags. Details of the observed field characteristics that were used to define the wetland boundary are presented in Attachment 2. Photographs of the identified wetlands are provided in Attachment 1. The identified wetland boundaries are presented on Figure 5.

5. References

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

New York State Department of Environmental Conservation. 1980, with wetland (CI-3) boundary adjustment 12/9/94. New York State Freshwater Wetlands Map – Clifton Quadrangle, New York.

New York State Department of Environmental Conservation. 2006. Wetland Inventory Field Data Sheet - Wetland (CI-3) provided by Scott Jones, biologist, Region 8.

United States Department of the Interior Geological Survey. 1971, photoinspected 1976. Topographic map – 7.5 Minute Series. Clifton Quadrangle, Monroe County, New York.

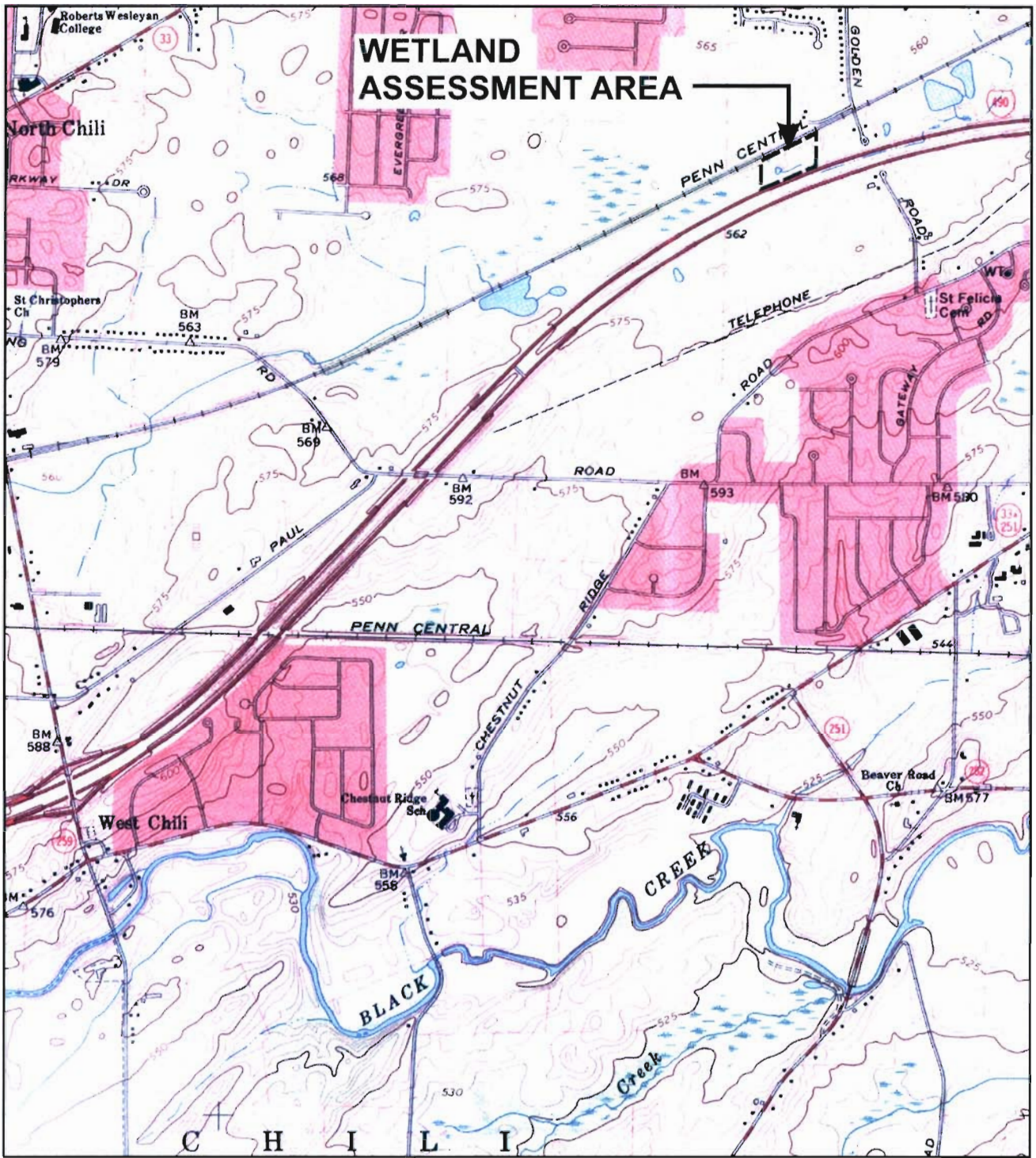
United States Department of the Interior. 2006. United States Fish and Wildlife Service National Wetlands Inventory Digital Data.
<http://wetlandsfws.er.usgs.gov/NWI/index.html>

United States Fish and Wildlife Service. National List of Vascular Plant Species That Occur in Wetlands: 1996 National Summary. Ecology Section – National Wetlands Inventory. 209 pp.

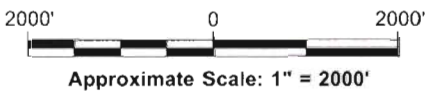
United States Department of Agriculture. 1973. Soil Survey of Monroe County, New York. Soil Conservation Service in cooperation with Cornell University Agricultural Experiment Station.

USDA. 2006. Hydric Soils Monroe County, New York. Tabular Data version: 4 dated 7/12/2006.

Figures



REFERENCE: BASE MAP USGS 7.5 MIN. QUAD., CLIFTON, NY, 1971, PHOTOREVISED 1976.



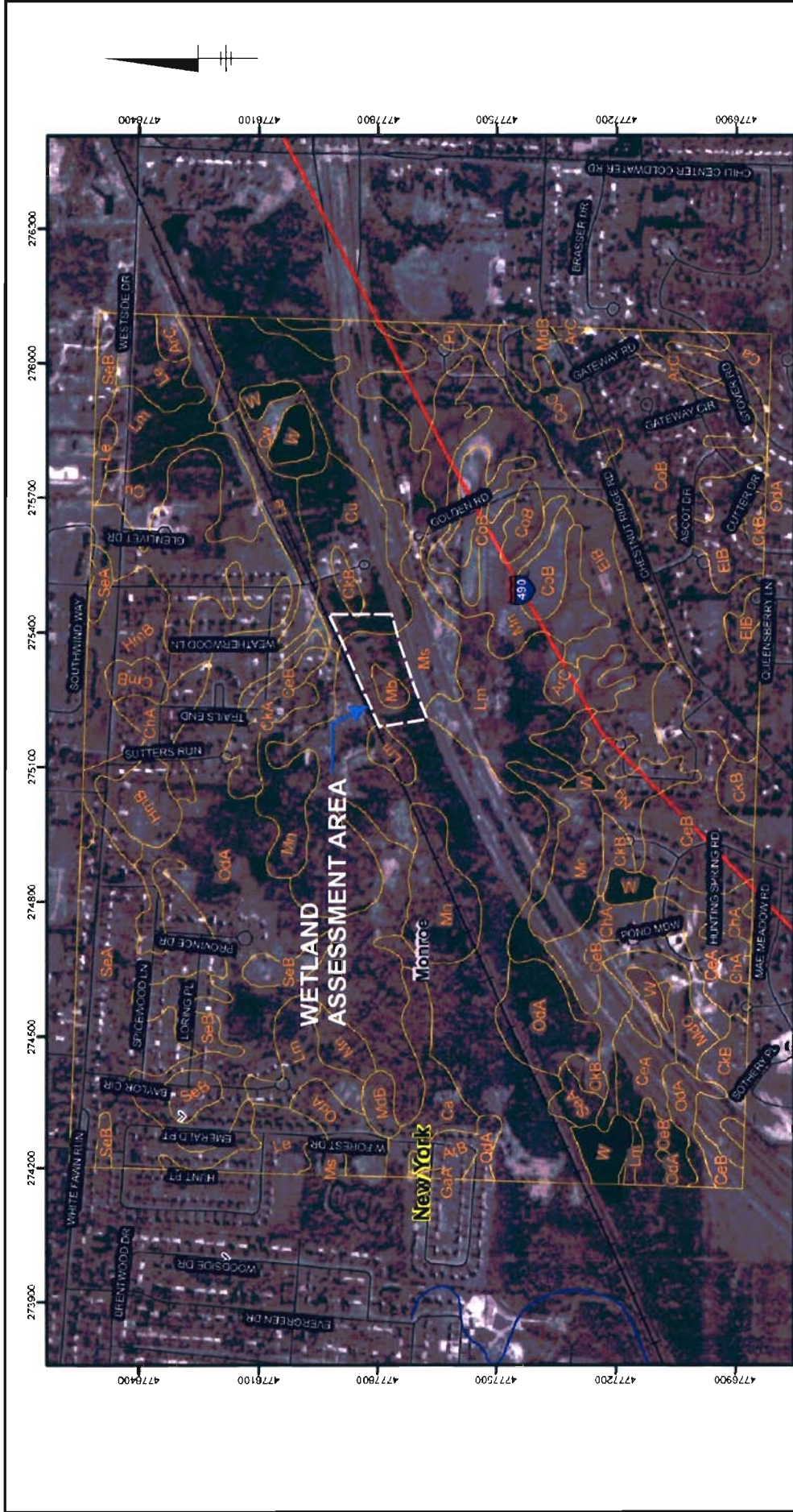
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
 GOLDEN ROAD SITE
 CHILI, NEW YORK
WETLAND DELINEATION REPORT

SITE LOCATION MAP

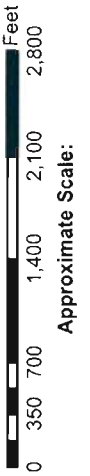
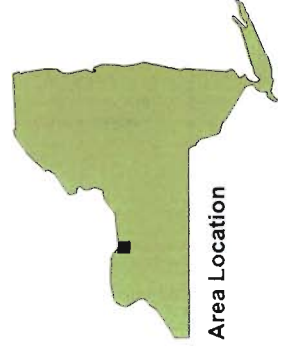


FIGURE
1

03/16/07 SYR-085-DJH
43524003/43524N02.CDR



REFERENCE:
BASE MAP USDA NATURAL RESOURCES CONSERVATION
SERVICE, SOIL SURVEY OF MONROE COUNTY,
NEW YORK, 1973.

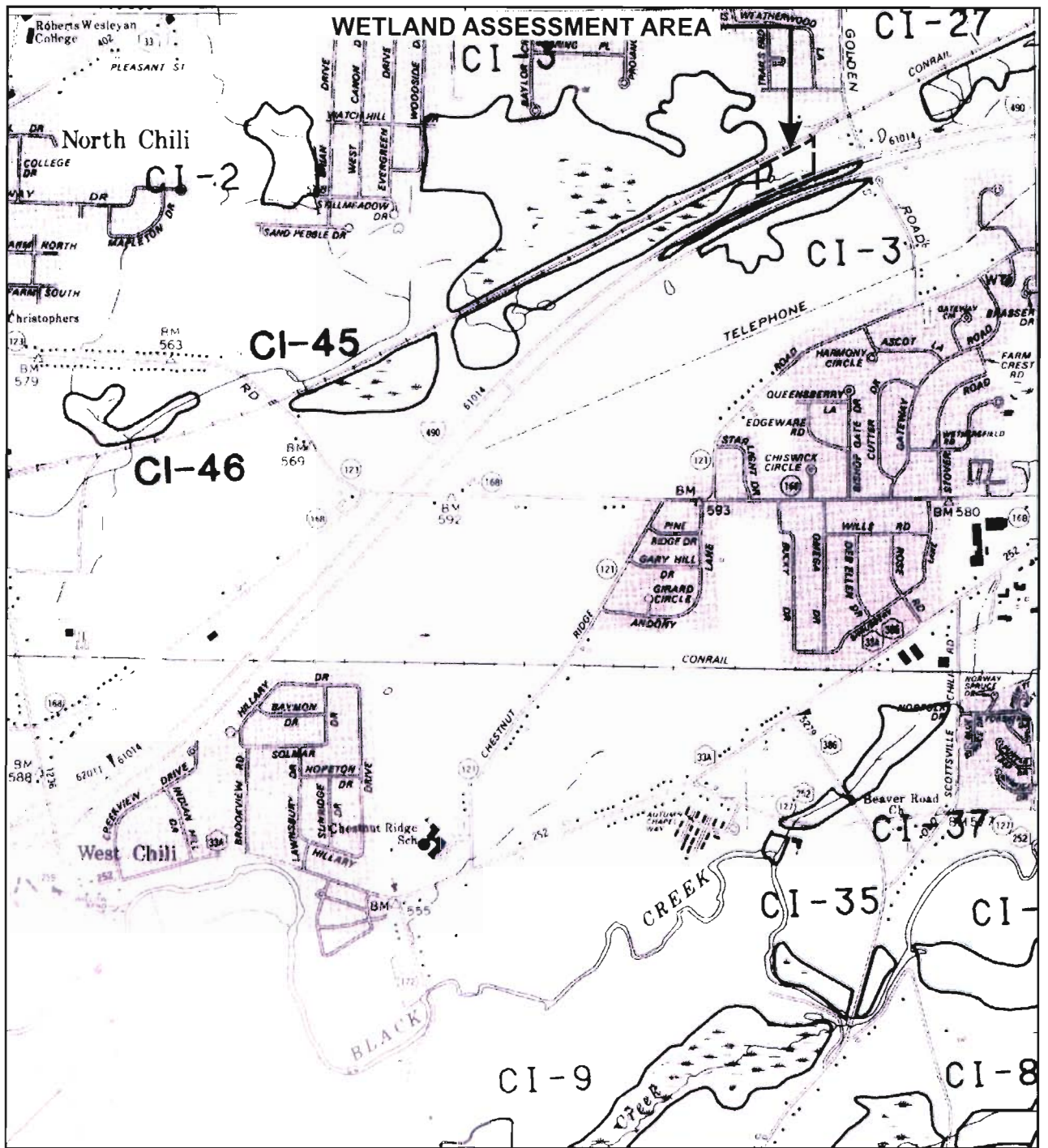


CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
GOLDEN ROAD SITE
CHILI, NEW YORK

WETLAND DELINEATION REPORT

SOIL TYPE MAP

FIGURE 2



REFERENCE: BASE MAP FRESHWATER WETLANDS MAP, 7.5 MIN. QUAD., CLIFTON, NEW YORK, 1994.

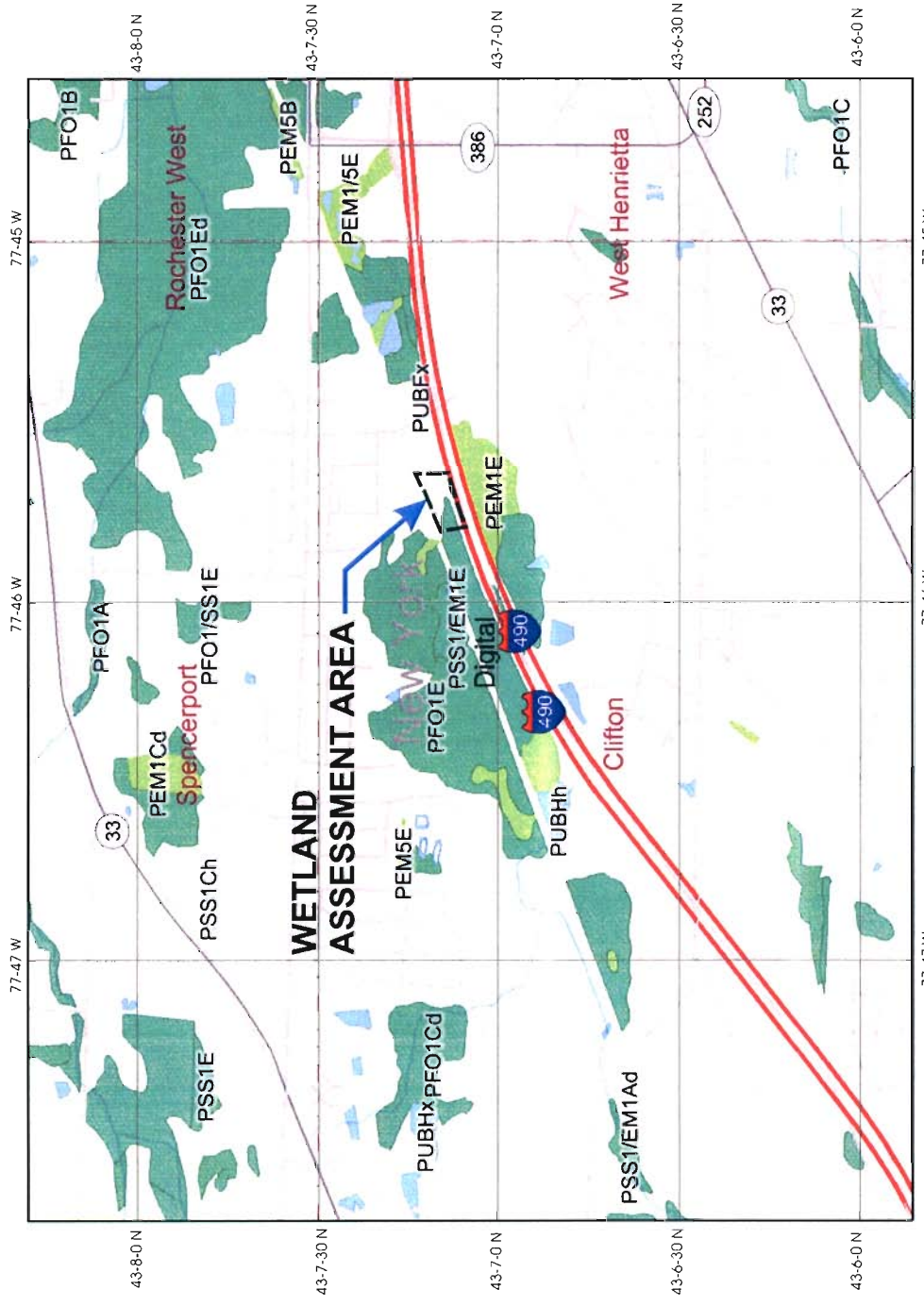


Area Location

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
 GOLDEN ROAD SITE
 CHILI, NEW YORK
WETLAND DELINEATION REPORT
**NEW YORK STATE FRESHWATER
 WETLANDS MAP FOR THE VICINITY
 OF THE WETLAND ASSESSMENT AREA**



FIGURE
3



Legend

- Interstate
- Major Road
- Other Road
- Interstate
- State highway
- US highway
- Roads
- Cities
- USGS Quad Index 24K
- Lower 48 Wetland Polygons
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine
- Lower 48 Available Wetland Data
- Non-Digital
- Digital
- No Data
- Scan
- NHD Streams
- Counties 100K
- Urban Areas 300K
- States 100K
- South America
- North America

Scale: 1:42,310

Map center: 43° 7' 5" N, 77° 46' 8" W

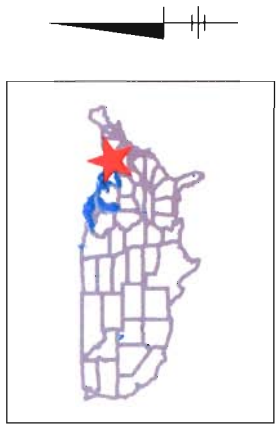
MAP SOURCE:
[HTTP://WETLANDSFWS.ER.USGS.GOV/NWI/INDEX.HTML](http://wetlandsfws.er.usgs.gov/nwi/index.html)

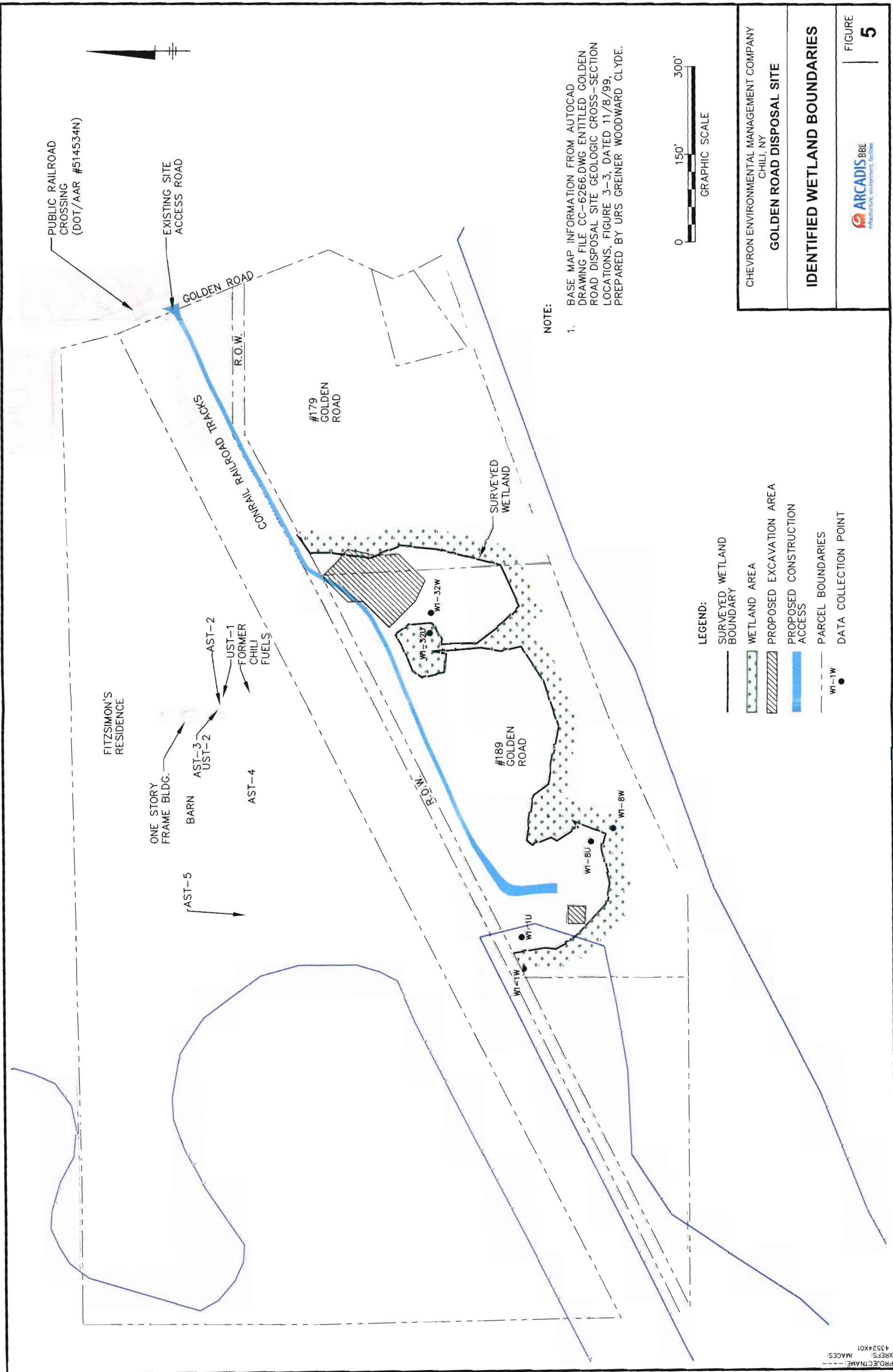
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
GOLDEN ROAD SITE
CHILI, NEW YORK

WETLAND DELINEATION REPORT

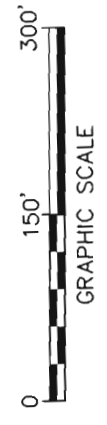
**NATIONAL WETLAND INVENTORY MAP
FOR THE VICINITY OF THE
WETLAND ASSESSMENT AREA**

FIGURE 4





NOTE:
 1. BASE MAP INFORMATION FROM AUTOCAD DRAWING FILE CC-6266.DWG ENTITLED GOLDEN ROAD DISPOSAL SITE GEOLOGIC CROSS-SECTION LOCATIONS, FIGURE 3-3, DATED 11/8/99, PREPARED BY URS GREINER WOODWARD CLYDE.



- LEGEND:
- SURVEYED WETLAND BOUNDARY
 - ▨ WETLAND AREA
 - ▨ PROPOSED EXCAVATION AREA
 - PROPOSED CONSTRUCTION ACCESS
 - PARCEL BOUNDARIES
 - WT-1W DATA COLLECTION POINT

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
 CHILI, NY

GOLDEN ROAD DISPOSAL SITE

IDENTIFIED WETLAND BOUNDARIES

ARCADIS BBL
Infrastructure. Environment. Global.

FIGURE **5**

Attachment 1

Wetland Photographs



W1-1, Looking South at W1-2 and W1-3.



W1-6, Looking Southeast at W1 - W1-7

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
GOLDEN ROAD SITE
CHILI, NEW YORK
WETLAND DELINEATION REPORT

WETLAND PHOTOGRAPHS



ATTACHMENT

1



W1-13, Looking Southeast.



W1-21, Looking South.

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
GOLDEN ROAD SITE
CHILI, NEW YORK
WETLAND DELINEATION REPORT

WETLAND PHOTOGRAPHS



ATTACHMENT

1



W1-21, Looking East.



W1-21, Looking North at W1-22.

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
GOLDEN ROAD SITE
CHILI, NEW YORK
WETLAND DELINEATION REPORT

WETLAND PHOTOGRAPHS

 **ARCADIS** BBL
infrastructure, environment, facilities

ATTACHMENT

1



Ditch Connecting Main Wetland with Inland Pond, Looking North at W1-24.



W1-23, Looking South at Interstate 490.

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
GOLDEN ROAD SITE
CHILI, NEW YORK
WETLAND DELINEATION REPORT

WETLAND PHOTOGRAPHS



ATTACHMENT

1



Inland Pond, Looking Northeast from W1-25.



Inland Pond, Looking South from W1-29.

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
GOLDEN ROAD SITE
CHILI, NEW YORK
WETLAND DELINEATION REPORT

WETLAND PHOTOGRAPHS

 **ARCADIS** BBL
infrastructure, environment, facilities

ATTACHMENT

1



W1-37, Looking South.



W1-41, Looking East.

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
GOLDEN ROAD SITE
CHILI, NEW YORK
WETLAND DELINEATION REPORT

WETLAND PHOTOGRAPHS



ATTACHMENT

1



W1-42, Looking East.

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
GOLDEN ROAD SITE
CHILI, NEW YORK
WETLAND DELINEATION REPORT

WETLAND PHOTOGRAPHS



ATTACHMENT

1

Attachment 2

Field Data Forms

**DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD¹**

Field Investigator(s): Anthony Esposito, David Cassel Date: 12/4/2006
 Project/Site: Golden Rd., Chili, NY State: NY County: Monroe
 Applicant/Owner: Chevron Environmental Management Company Plant Community #/Name: W1-1W

NOTE: If a more detailed site description is necessary, use the back of data form or field notebook.

Do normal environmental conditions exist at the plant community?

Yes No (If not, explain on back)

Has the vegetation, soils, and/or hydrology been significantly disturbed?

Yes No (If yes, explain on back)

VEGETATION

Dominant Plant Species	Indicator Status	Stratum	Dominant Plant Species	Indicator Status	Stratum
1. <u><i>Onoclea sensibilis</i></u>	<u>FACW</u>	<u>Herb</u>	11. _____	_____	_____
2. <u><i>Acer rubrum</i></u>	<u>FACW+</u>	<u>Tree</u>	12. _____	_____	_____
3. <u><i>Fraxinus pennsylvanica</i></u>	<u>FACW</u>	<u>Tree</u>	13. _____	_____	_____
4. <u><i>Salix sp.</i></u>	<u>FACW</u>	<u>Shrub</u>	14. _____	_____	_____
5. _____	_____	_____	15. _____	_____	_____
6. _____	_____	_____	16. _____	_____	_____
7. _____	_____	_____	17. _____	_____	_____
8. _____	_____	_____	18. _____	_____	_____
9. _____	_____	_____	19. _____	_____	_____
10. _____	_____	_____	20. _____	_____	_____

Percent of dominant species that are OBL, FACW, and/or FAC : 100%

Is the hydrophytic vegetation criterion met? Yes No

Rationale: > 50% of vegetation is hydrophytic

SOILS

Series/phase: Muck Subgroup²: _____
 Is the soil on the hydric soils list? Yes No Undetermined: _____
 Is the soil a Histosol? Yes No Histic epipedon present? Yes No
 Is the soil: Mottled? Yes No Gleyed? Yes No
 Matrix Color: 10YR 2/1 @ 0-24 in. Mottle Colors: _____
 Other hydric soil indicators: Soils saturated to surface
 Is the hydric soil criterion met? Yes No
 Rationale: Listed hydric soil

HYDROLOGY

Is the ground surface inundated? Yes No Surface water depth: 0-3 in.
 Is the soil saturated? Yes No
 Depth to free-standing water in pit/soil probe hole: 0
 List other field evidence of surface inundation or soil saturation: Drainage patterns
 Is the wetland hydrology criterion met? Yes No
 Rationale: Primary and secondary indicators observed

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes No
 Rationale for jurisdictional decision: All three criteria met

¹This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.

²Classification according to "Soil Taxonomy."

**DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD¹**

Field Investigator(s): Anthony Esposito, David Cassel

Date: 12/4/2006

Project/Site: Golden Rd., Chili, NY

State: NY

County: Monroe

Applicant/Owner: Chevron Environmental Management Company

Plant Community #/Name: W1-8U

NOTE: If a more detailed site description is necessary, use the back of data form or field notebook.

Do normal environmental conditions exist at the plant community?

Yes No (If not, explain on back)

Has the vegetation, soils, and/or hydrology been significantly disturbed?

Yes No (If yes, explain on back)

VEGETATION

<u>Dominant Plant Species</u>	<u>Indicator Status</u>	<u>Stratum</u>	<u>Dominant Plant Species</u>	<u>Indicator Status</u>	<u>Stratum</u>
1. <u>Populus deltoides</u>	<u>FAC</u>	<u>Tree</u>	11. _____	_____	_____
2. <u>Lonicera tatarica</u>	<u>FACU</u>	<u>Shrub</u>	12. _____	_____	_____
3. <u>Betula nigra</u>	<u>FACW</u>	<u>Shrub</u>	13. _____	_____	_____
4. _____	_____	_____	14. _____	_____	_____
5. _____	_____	_____	15. _____	_____	_____
6. _____	_____	_____	16. _____	_____	_____
7. _____	_____	_____	17. _____	_____	_____
8. _____	_____	_____	18. _____	_____	_____
9. _____	_____	_____	19. _____	_____	_____
10. _____	_____	_____	20. _____	_____	_____

Percent of dominant species that are OBL, FACW, and/or FAC : 67%

Is the hydrophytic vegetation criterion met? Yes No

Rationale: low matrix chroma

SOILS

Series/phase: _____ Subgroup²: _____

Is the soil on the hydric soils list? Yes No Undetermined:

Is the soil a Histosol? Yes No Histic epipedon present? Yes No

Is the soil: Mottled? Yes No Gleyed? Yes No

Matrix Color: 10 YR 3/1, Red clumps - 10 YR 4/6 Mottle Colors: None

Other hydric soil indicators: None

Is the hydric soil criterion met? Yes No

Rationale: Low matrix chroma

HYDROLOGY

Is the ground surface inundated? Yes No Surface water depth: 0

Is the soil saturated? Yes No

Depth to free-standing water in pit/soil probe hole: > 18 in.

List other field evidence of surface inundation or soil saturation: None

Is the wetland hydrology criterion met? Yes No

Rationale: No wetland hydrology indicators observed

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes No

Rationale for jurisdictional decision: All three criteria not met

¹This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.

²Classification according to "Soil Taxonomy."

**DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD¹**

Field Investigator(s): Anthony Esposito, David Cassel

Date: 12/4/2006

Project/Site: Golden Rd., Chili, NY

State: NY

County: Monroe

Applicant/Owner: Chevron Environmental Management Company

Plant Community #/Name: W1-1U

NOTE: If a more detailed site description is necessary, use the back of data form or field notebook.

Do normal environmental conditions exist at the plant community?

Yes No (If not, explain on back)

Has the vegetation, soils, and/or hydrology been significantly disturbed?

Yes No (If yes, explain on back)

VEGETATION

<u>Dominant Plant Species</u>	<u>Indicator Status</u>	<u>Stratum</u>	<u>Dominant Plant Species</u>	<u>Indicator Status</u>	<u>Stratum</u>
1. <u>Populus deltoids</u>	<u>FAC</u>	<u>Tree</u>	11. _____	_____	_____
2. <u>Rhamnus cathartica</u>	<u>FAC-</u>	<u>Shrub</u>	12. _____	_____	_____
3. <u>Populus tremuloides</u>	<u>NI</u>	<u>Tree</u>	13. _____	_____	_____
4. <u>Fraxinus Americana</u>	<u>FACU</u>	<u>Shrub</u>	14. _____	_____	_____
5. <u>Lonicera tatarica</u>	<u>FACU</u>	<u>Shrub</u>	15. _____	_____	_____
6. <u>Toxicodendron radicans</u>	<u>FAC</u>	<u>Vine</u>	16. _____	_____	_____
7. <u>Rubus allegheniensis</u>	<u>FACU-</u>	<u>Herb</u>	17. _____	_____	_____
8. _____	_____	_____	18. _____	_____	_____
9. _____	_____	_____	19. _____	_____	_____
10. _____	_____	_____	20. _____	_____	_____

Percent of dominant species that are OBL, FACW, and/or FAC : 14%

Is the hydrophytic vegetation criterion met? Yes No

Rationale: < 50% of vegetation is hydrophytic

SOILS

Series/phase: _____

Subgroup²: _____

Is the soil on the hydric soils list? Yes No

Undetermined:

Is the soil a Histosol? Yes No Histic epipedon present? Yes No

Is the soil: Mottled? Yes No Gleyed? Yes No

Matrix Color: 10 YR 3/1 @ 0-18 in., Red clumps - 10 YR 4/6

Mottle Colors: None

Other hydric soil indicators: None

Is the hydric soil criterion met? Yes No

Rationale: Low matrix chroma

HYDROLOGY

Is the ground surface inundated? Yes No

Surface water depth: None

Is the soil saturated? Yes No

Depth to free-standing water in pit/soil probe hole: >18 in.

List other field evidence of surface inundation or soil saturation: None

Is the wetland hydrology criterion met? Yes No

Rationale: No indicators observed

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes No

Rationale for jurisdictional decision: All three criteria not met

¹This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.

²Classification according to "Soil Taxonomy."

**DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD¹**

Field Investigator(s): Anthony Esposito, David Cassel

Date: 12/4/2006

Project/Site: Golden Rd., Chili, NY

State: NY

County: Monroe

Applicant/Owner: Chevron Environmental Management Company

Plant Community #/Name: W1-8W

NOTE: If a more detailed site description is necessary, use the back of data form or field notebook.

Do normal environmental conditions exist at the plant community?

Yes No (If not, explain on back)

Has the vegetation, soils, and/or hydrology been significantly disturbed?

Yes No (If yes, explain on back)

VEGETATION

<u>Dominant Plant Species</u>	<u>Indicator Status</u>	<u>Stratum</u>	<u>Dominant Plant Species</u>	<u>Indicator Status</u>	<u>Stratum</u>
1. <u>Fraxinus pennsylvanica</u>	<u>FACW</u>	<u>Tree</u>	11. _____	_____	_____
2. <u>Acer rubrum</u>	<u>FACW+</u>	<u>Tree</u>	12. _____	_____	_____
3. _____	_____	_____	13. _____	_____	_____
4. _____	_____	_____	14. _____	_____	_____
5. _____	_____	_____	15. _____	_____	_____
6. _____	_____	_____	16. _____	_____	_____
7. _____	_____	_____	17. _____	_____	_____
8. _____	_____	_____	18. _____	_____	_____
9. _____	_____	_____	19. _____	_____	_____
10. _____	_____	_____	20. _____	_____	_____

Percent of dominant species that are OBL, FACW, and/or FAC : 100%

Is the hydrophytic vegetation criterion met? Yes No

Rationale: > 50% of vegetation is hydrophytic

SOILS

Series/phase: Muck

Subgroup²: _____

Is the soil on the hydric soils list? Yes No

Undetermined: _____

Is the soil a Histosol? Yes No Histic epipedon present? Yes No

Is the soil: Mottled? Yes No Gleyed? Yes No

Matrix Color: 10YR 2/1 @ 0-24 in.

Mottle Colors: None

Other hydric soil indicators: Soil saturated to surface

Is the hydric soil criterion met? Yes No

Rationale: Listed hydric soil

HYDROLOGY

Is the ground surface inundated? Yes No

Surface water depth: 0-12 in.

Is the soil saturated? Yes No

Depth to free-standing water in pit/soil probe hole: 0

List other field evidence of surface inundation or soil saturation: Drainage patterns

Is the wetland hydrology criterion met? Yes No

Rationale: Primary and secondary indicators observed

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes No

Rationale for jurisdictional decision: All three criteria met

¹This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.

²Classification according to "Soil Taxonomy."

**DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD¹**

Field Investigator(s): Anthony Esposito, David Cassel

Date: 12/4/2006

Project/Site: Golden Rd., Chili, NY

State: NY

County: Monroe

Applicant/Owner: Chevron Environmental Management Company

Plant Community #/Name: W1-32W

NOTE: If a more detailed site description is necessary, use the back of data form or field notebook.

Do normal environmental conditions exist at the plant community?

Yes No (If not, explain on back)

Has the vegetation, soils, and/or hydrology been significantly disturbed?

Yes No (If yes, explain on back)

VEGETATION

<u>Dominant Plant Species</u>	<u>Indicator Status</u>	<u>Stratum</u>	<u>Dominant Plant Species</u>	<u>Indicator Status</u>	<u>Stratum</u>
1. <u>Phalaris arundinacea</u>	<u>FACW</u>	<u>Herb</u>	11. _____	_____	_____
2. _____	_____	_____	12. _____	_____	_____
3. _____	_____	_____	13. _____	_____	_____
4. _____	_____	_____	14. _____	_____	_____
5. _____	_____	_____	15. _____	_____	_____
6. _____	_____	_____	16. _____	_____	_____
7. _____	_____	_____	17. _____	_____	_____
8. _____	_____	_____	18. _____	_____	_____
9. _____	_____	_____	19. _____	_____	_____
10. _____	_____	_____	20. _____	_____	_____

Percent of dominant species that are OBL, FACW, and/or FAC : 100%

Is the hydrophytic vegetation criterion met? Yes No

Rationale: > 50% of vegetation is hydrophytic

SOILS

Series/phase: Muck Subgroup²: _____

Is the soil on the hydric soils list? Yes No Undetermined: _____

Is the soil a Histosol? Yes No Histic epipedon present? Yes No

Is the soil: Mottled? Yes No Gleyed? Yes No

Matrix Color: 10YR 2/1 @0-24 inches Mottle Colors: None

Other hydric soil indicators: Soil saturated to surface

Is the hydric soil criterion met? Yes No

Rationale: Listed hydric soil

HYDROLOGY

Is the ground surface inundated? Yes No Surface water depth: 0-12 in.

Is the soil saturated? Yes No

Depth to free-standing water in pit/soil probe hole: _____

List other field evidence of surface inundation or soil saturation: Drainage patterns

Is the wetland hydrology criterion met? Yes No

Rationale: Primary and secondary indicators observed

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes No

Rationale for jurisdictional decision: All three criteria met

¹This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.

²Classification according to "Soil Taxonomy."

**DATA FORM
ROUTINE ON-SITE DETERMINATION METHOD¹**

Field Investigator(s): Anthony Esposito, David Cassel

Date: 12/4/2006

Project/Site: Golden Rd., Chili, NY

State: NY

County: Monroe

Applicant/Owner: Chevron Environmental Management Company

Plant Community #/Name: W1-32U

NOTE: If a more detailed site description is necessary, use the back of data form or field notebook.

Do normal environmental conditions exist at the plant community?

Yes No (If not, explain on back)

Has the vegetation, soils, and/or hydrology been significantly disturbed?

Yes No (If yes, explain on back)

VEGETATION

<u>Dominant Plant Species</u>	<u>Indicator Status</u>	<u>Stratum</u>	<u>Dominant Plant Species</u>	<u>Indicator Status</u>	<u>Stratum</u>
1. <u>Populus deltoides</u>	<u>FAC</u>	<u>Tree</u>	11. _____	_____	_____
2. <u>Lonicera tatarica</u>	<u>FACU</u>	<u>Shrub</u>	12. _____	_____	_____
3. <u>Rhamnus cathartica</u>	<u>FAC-</u>	<u>Shrub</u>	13. _____	_____	_____
4. <u>Fraxinus pennsylvanica</u>	<u>FACW</u>	<u>Shrub</u>	14. _____	_____	_____
5. _____	_____	_____	15. _____	_____	_____
6. _____	_____	_____	16. _____	_____	_____
7. _____	_____	_____	17. _____	_____	_____
8. _____	_____	_____	18. _____	_____	_____
9. _____	_____	_____	19. _____	_____	_____
10. _____	_____	_____	20. _____	_____	_____

Percent of dominant species that are OBL, FACW, and/or FAC : 50%

Is the hydrophytic vegetation criterion met? Yes No

Rationale: 50% of vegetation is hydrophytic

SOILS

Series/phase: _____ Subgroup²: _____

Is the soil on the hydric soils list? Yes No Undetermined:

Is the soil a Histosol? Yes No Histic epipedon present? Yes No

Is the soil: Mottled? Yes No Gleyed? Yes No

Matrix Color: 10 YR 3/1, Red clumps - 10 YR 4/6 Mottle Colors: None

Other hydric soil indicators: None

Is the hydric soil criterion met? Yes No

Rationale: Low matrix chroma

HYDROLOGY

Is the ground surface inundated? Yes No Surface water depth: 0

Is the soil saturated? Yes No

Depth to free-standing water in pit/soil probe hole: > 18 in.

List other field evidence of surface inundation or soil saturation: None

Is the wetland hydrology criterion met? Yes No

Rationale: No wetland hydrology indicators observed

JURISDICTIONAL DETERMINATION AND RATIONALE

Is the plant community a wetland? Yes No

Rationale for jurisdictional decision: All three criteria not met

¹This data form can be used for the Hydric Soil Assessment Procedure and the Plant Community Assessment Procedure.

²Classification according to "Soil Taxonomy."

