

Yclark : Revised X

# Kitchen & Bath Works

314 Route 94 South  
Warwick, New York 10990  
(845) 988-5522  
(845) 988-5506 fax

Town of Warwick

RE: Kitchen partial Renovation

**Proposal**

**March 4, 2016**

KBW will perform the following:

Supply all labor and materials needed to patch drywall where needed

- Supply all labor and materials needed to install 25x21 SS drop in sink for bar area. Sink donated by Kitchen & Bath Works
- Supply and install Birch wood cabinets in kitchen area as per KBW plans
- Supply and install Formica counter tops with a standard edge
- Supply and install quartz sink. Sink to be donated by Kitchen and Bath Works
- Supply and install Faucet. Faucet to be donated by Kitchen and Bath Works
- Supply and install 30" refrigerator. Refrigerator to be donated by Kitchen & Bath Works.

This price does not include any painting or electrical

All materials are quoted at a cost basis, no profit is added.

Total renovation: \$ 6,370.00

# Kitchen & Bath Works

314 Route 94 South  
Warwick, New York 10990  
(845) 988-5522  
(845) 988-5506 fax

Town of Warwick

RE: Kitchen partial Renovation AT COLBUILDING

**Proposal**

**February 29 2015**

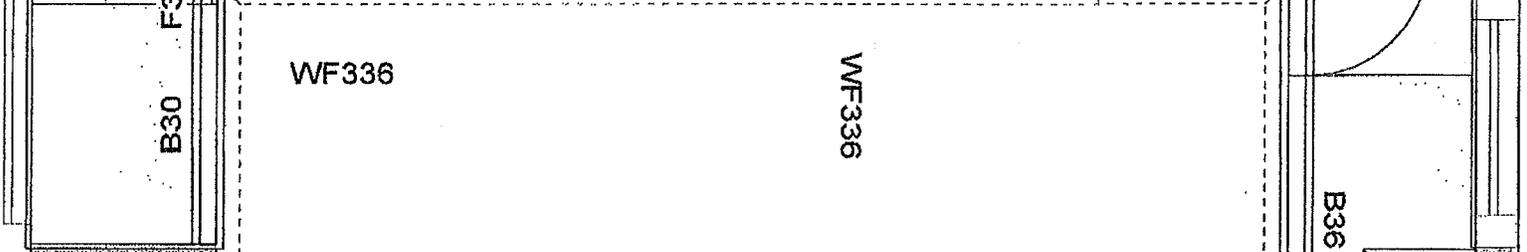
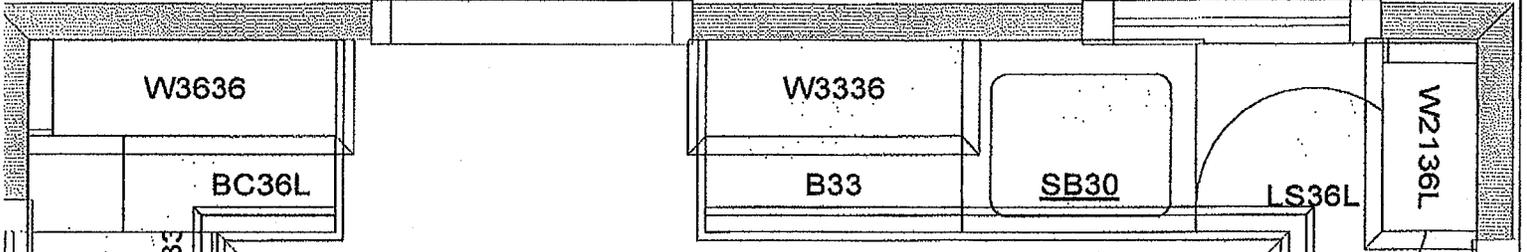
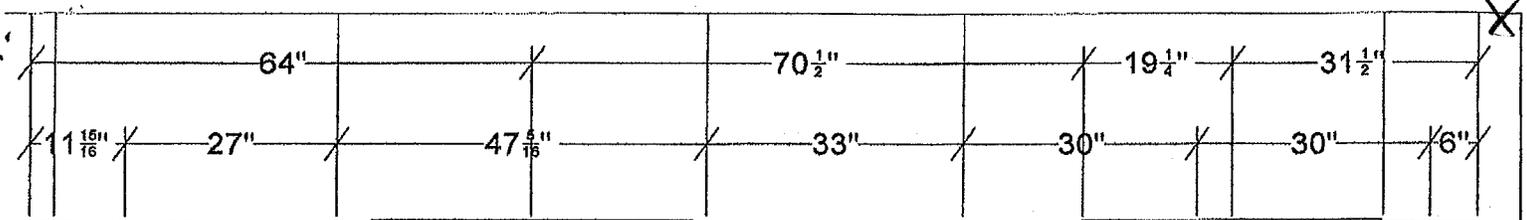
KBW will perform the following:

- Supply and install new pocket door
- Supply all labor and materials needed to patch drywall where needed
- Supply all labor and materials needed to install 25x21 SS drop in sink for bar area. Sink donated by Kitchen & Bath Works
- Supply and install Birch wood cabinets in kitchen area as per KBW plans
- Supply and install Formica counter tops with a standard edge
- Supply and install quartz sink. Sink to be donated by Kitchen and Bath Works
- Supply and install Faucet. Faucet to be donated by Kitchen and Bath Works
- Supply and install 30" refrigerator. Refrigerator to be donated by Kitchen & Bath Works.

This price does not include any painting or electrical

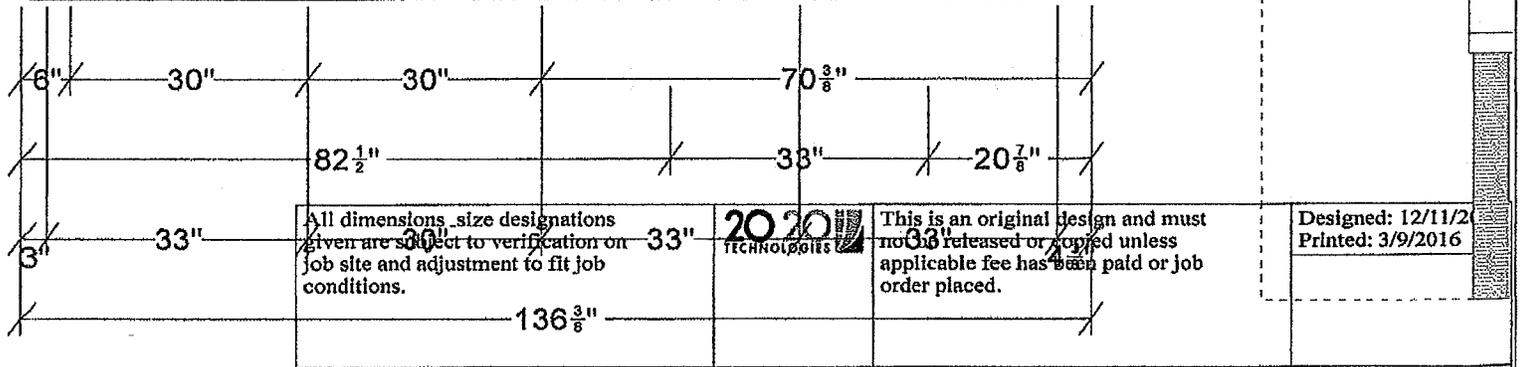
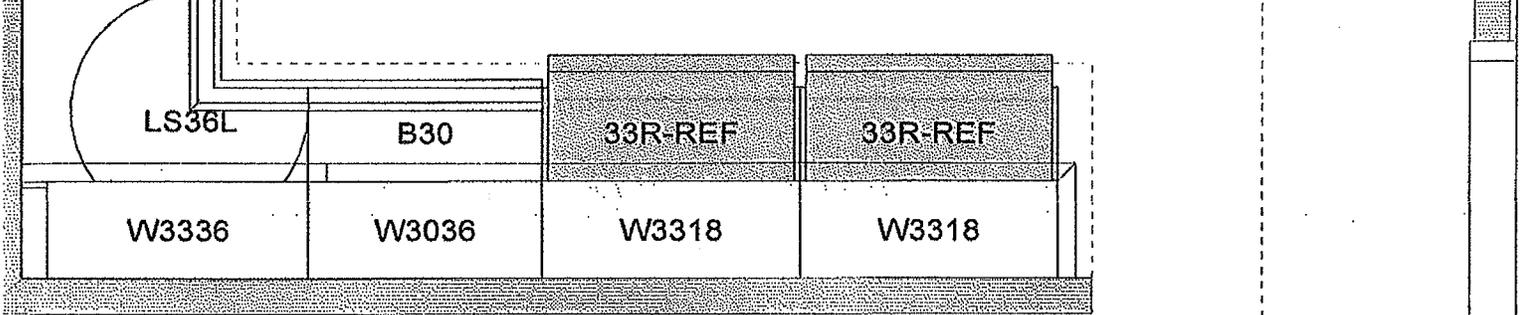
All materials are quoted at a cost basis, no profit is added.

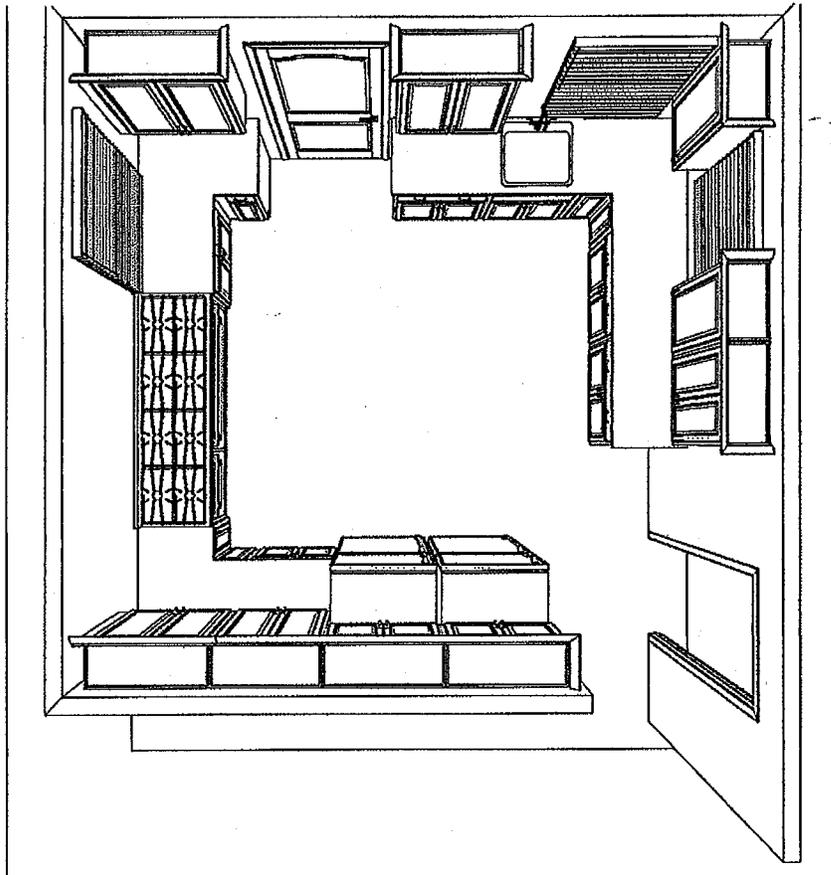
Total renovation: \$ 6,595.00



*Wolf Classic Cabinets*  
*Engineered Door Design*  
*CABINETS ONLY DELIVERED.*  
*# of. 427.73 + TAX*

*LAMINATE COUNTERTOPS*  
*TEMPLATED & INSTALLED.*  
 WF336 *# 2,075.79 + TAX*

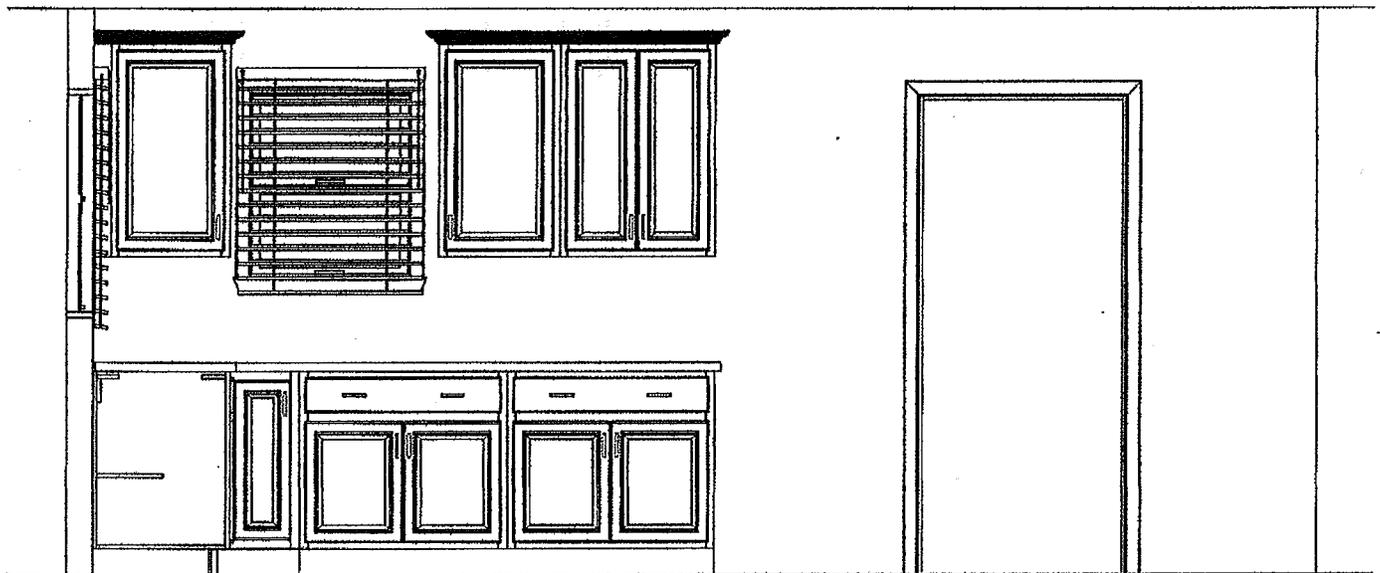




Note: This drawing is an artistic interpretation of the general appearance of the design. It is not meant to be an exact rendition.



Designed: 12/11/2014  
Printed: 3/9/2016



Note: This drawing is an artistic interpretation of the general appearance of the design. It is not meant to be an exact rendition.



Designed: 12/11/2014  
Printed: 3/9/2016



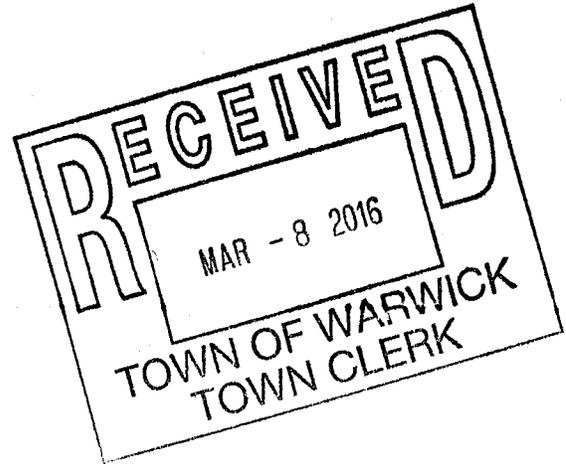
## OFFICE OF COMMUNITY DEVELOPMENT

Richard Mayfield, Director  
18 Seward Avenue – 1<sup>st</sup> Floor  
Middletown, New York 10940  
Tel: (845) 615-3820 • Fax: (845) 344-1629  
Email: [CommDev@co.orange.ny.us](mailto:CommDev@co.orange.ny.us)

**Steven M. Neuhaus**  
*County Executive*

May 6, 2015

Town of Warwick  
Attn: Eileen Astorino, Town Clerk  
132 Kings Highway  
Warwick, NY 10990



Dear Ms. Astorino:

Enclosed please find a flyer regarding Orange County's Farmworker Program. Would you please post it in your municipal office?

Thank you. If you have any questions, I can be contacted at 651-3815 or at [ldietz@orangecountygov.com](mailto:ldietz@orangecountygov.com).

Sincerely,

*Elizabeth S. Dietz*

Elizabeth S. Dietz  
Senior Account Clerk

/ld

Enc.

**ATTENTION:  
ORANGE COUNTY FARMERS**

**APPLICATIONS ARE NOW AVAILABLE  
FOR 2016 FUNDING FOR  
ORANGE COUNTY'S  
FARMWORKER HOUSING REHABILITATION PROGRAM**

Orange County farmers who are owners of existing seasonal or year round farmworker housing may be eligible for deferred grants to repair and upgrade housing occupied by low income farmworkers. The County will provide grants up to 75% of the cost of rehabilitation, with the farmer/owner providing the remaining 25% match.

**All completed application packets must be  
submitted by 3:00pm on FRIDAY, APRIL 29, 2016 to:**

**Orange County Office of Community Development  
18 Seward Avenue, 1<sup>st</sup> floor  
Middletown, NY 10940**

**For an application or more information, contact:**

**Liz Dietz**

**Orange County Community Development  
845-615-3815**

**Richard Mayfield, Director  
County of Orange / Office of Community Development  
18 Seward Avenue, 1<sup>st</sup> floor  
Middletown, New York 10940  
Telephone: 845-615-3820**



**Steven M. Neuhaus, County Executive**

# TOWN OF WARWICK

## DEPARTMENT OF POLICE

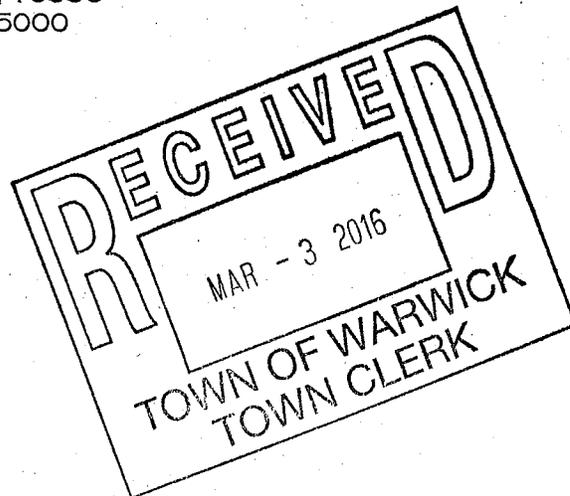
132 KINGS HIGHWAY  
WARWICK N.Y. 10990  
(845) 986-5000

THOMAS F. MCGOVERN, JR. N.A.  
CHIEF OF POLICE

2<sup>nd</sup> March 2016

MEMO

To: Supervisor Michael Sweeton  
From: Chief Thomas McGovern  
Re: Resolution to Accept Bid



Please accept this memo as my request to adopt a resolution to accept the bid of \$650.00 from PropertyRoom.com for the 2009 Dodge Durango.

If you have any questions, do not hesitate to contact me.

Thank you.

cc: Ana Kanz & Eileen Astorino

TM/km



*DPW*

RECEIVED

FEB 26 2016

TOWN OF WARWICK  
DPW

X

**Auction results**

1 message

**Bryan Rose** <bryanrose@propertyroom.com>  
To: jvferagola@gmail.com <jvferagola@gmail.com>

Thu, Feb 25, 2016 at 15:02

Hello Officer Feragola -

Please see the results of the auction, and advise if you accept or decline. Thanks!

02/25/2016	37229675	7531- 000005	1997 FORD F350	BTBA \$100.00	1	On Approval
02/25/2016	37230095	7531- 000006	2002 FORD F350 SUPER	BTBA \$675.00	1	On Approval
02/25/2016	37230755	7531- 000007	2009 DODG DURANGO SE	BTBA \$650.00	1	On Approval
02/25/2016	37613915	7531- 000009	2000 INTL 4000 SERIE	BTBA \$1,850.00	1	On Approval

*Need VIN #'s*

Bryan Rose

Client Service Manager - Vehicles | [www.PropertyRoom.com](http://www.PropertyRoom.com)

5257 Buckeystown Pike, Suite 475 | Frederick, MD 21704

O: 866.799.3551x88 | F: 859.296.9131 | E: BryanRose@PropertyRoom.com



National Joint Powers Alliance (NJPA) Awarded Vendor

For Fleet & Equipment Auction Services - Contract # 042911-PRC

X

**Warwick Town Clerk**

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**From:** "James V Feragola" <jvferagola@gmail.com>  
**To:** "Warwick Town Clerk" <townclk@warwick.net>  
**Sent:** Tuesday, March 08, 2016 4:18 PM  
**Subject:** Re: PropertyRoom.com

Eileen,

1997 Ford F350 VIN# 3FTHF35H4VMA55542  
2002 Ford F350 VIN# 1FTSF31S92ED12171  
2000 Intl Hvt VIN# 1HTSEADR5YH262041

Let me know if you need anything else

James V Feragola

On Tue, Mar 8, 2016 at 3:48 PM, Warwick Town Clerk <townclk@warwick.net> wrote:

Hi Jim,

Can you please give me the Vin#'s for the=20

1997 Ford F350

2002 Ford F350

2000 Intl 4000

I need them for the Town Board meeting on Thursday. Please get them to =  
me ASAP. Thanks

Eileen Astorino

Town Clerk

X

Town of Warwick, NY  
Monday, February 22, 2016

## Chapter 164. Zoning

### Article IV. Regulations

#### § 164-47.3. Agricultural Protection Overlay District.

- A. Findings and purpose. The Town of Warwick finds that protection of agriculture is essential to implementing the goals of the Town of Warwick Comprehensive Plan.<sup>[1]</sup> Protection of land for agricultural purposes is a legitimate zoning objective under New York State's statutes, which the regulations set forth in this section seek to achieve. It is also a policy of the New York State Constitution to preserve agriculture. The purposes of the Agricultural Protection Overlay District (hereafter the AP-O District), among others, are as follows:
- (1) To protect and maintain the Town's farmland for continued or future agricultural use, including operating farms, lands that contain prime agricultural soils, soils of statewide significance or black dirt soils and lands within Agricultural Districts;
  - (2) To implement the Town Comprehensive Plan, which contains the goals of protecting rural and agricultural lands, discouraging incompatible nearby land uses, and promoting agriculture as a component of the local economy;
  - (3) To support and protect farming by stabilizing the agricultural land base;
  - (4) To maintain a viable agricultural base to support agricultural processing and service industries;
  - (5) To encourage the voluntary transfer of development rights from farms within the AP-O District to suitable nonfarm receiving areas of the Town as identified in § 164-47.4;
  - (6) To separate agricultural land uses and activities from incompatible residential, commercial, industrial development, and public facility development;
  - (7) To prevent fragmentation of the Town's existing farming community by nonfarm development; and
  - (8) To reserve the Town's most productive soils for agriculture.
- [1] *Editor's Note: The Comprehensive Plan is on file in the office of the Town Clerk.*

B. Applicability.

- (1) The AP-O District qualifying area is hereby established as an overlay district as shown on the Town of Warwick Agricultural Protection Overlay District Qualifying Area Map, and containing a critical mass of lands meeting the following criteria:
  - (a) Contiguous land in single ownership as of the effective date of this chapter on which at least 50% of the surficial soils are classified as prime farmland soils (Class 1 and 2), soils of statewide significance (Class 3 and 4) or black dirt soils as established by criteria of the Natural Resources Conservation Service, United States Department of Agriculture

(hereinafter "agricultural soils"); or

- (b) Parcels of land included in Agricultural District 2 established pursuant to the New York State Agriculture and Markets Law, Article 25-AA, §§ 303 and 304, both as of the effective date of this chapter and as may thereafter be added to the District; or
- (c) Parcels of land receiving farm tax assessment as of the effective date of this chapter and as may thereafter receive such assessment; or
- (d) Parcels of land that are part of operating farms as of the effective date of this chapter; and
- (e) Other parcels of land, which because of their location within or adjacent to lands described in Subsection **B(1)(a), (b), (c)** and/or **(d)** above and their undeveloped nature, large size or siting amidst farmlands are necessary to include in the AP-O District to prevent the proliferation of conflicting adjacent uses that could jeopardize the future survival of farming within the District.

(2) The Town Board hereby adopts the map entitled "Town of Warwick Agriculture Protection Overlay District Qualifying Area Map", reflecting lands included within the AP-O District as described in Subsection **B(1)** above. Said map shall be the basis for administration of the regulations contained in this District.

(3) Any landowner whose land has not been mapped on the Town of Warwick Agriculture Protection Overlay District Qualifying Area Map may request to be covered by the regulations of this District. If the Town Board finds that such land satisfies the criteria for AP-O designation in § **164-47.3B(1)** above, it may amend the AP-O Map to include such land.

(4) Should any provisions of the AP-O District differ with any other provisions of this chapter, the provisions of the AP-O District shall control.

(5) Landowners who are within the AP-O Qualifying Area may voluntarily choose to participate in the provisions of this Overlay District and thereby afford themselves of its benefits as discussed below. The benefits of the AP-O District shall not apply until a landowner files a statement with the Town Clerk. To participate, landowners shall file a statement with the Town Clerk, on forms available from the Clerk's Office, advising the Town Board that they wish to participate. The Town Clerk shall certify a landowner's statement and shall refer the statement to the Town Board within 14 days. The Town Board shall then amend the AP-O District Qualifying Area Map to indicate participation by the subject landowner.

[Amended 9-11-2003 by L.L. No. 4-2003]

C. Special benefits. In addition to the permitted uses and special uses allowed in the underlying zoning districts, there are a number of benefits available to farmers who participate in the AP-O District's provisions. These include the following:

- (1) A transfer of development rights/purchase of development rights density bonus that affords a lot yield based on the minimum acreage requirements established in the 1989 Zoning Law of the Town of Warwick. This density bonus is illustrated in the following table:

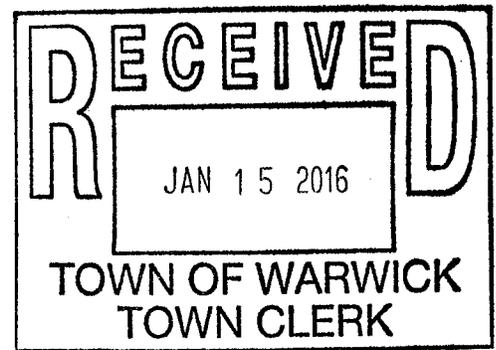
<b>Zoning District</b>	<b>2001 Zoning Law Minimum Lot Size (acres)</b>	<b>1989 Zoning Law Minimum Lot Size (acres)</b>
SL (old SR-.7)	3	1 1/2
RU (old RR-.5)	4	2
MT (old MR-.3)	5	3
CO (old CR-.25)	6	4

- (2) Qualified participation in the Town of Warwick Open Space Leasing Program;

- (3) Farm market development as an accessory use involving less than 4,000 square feet of gross floor area. Farm markets more than 4,000 square feet shall require a special use permit in accordance with § 164-46;
  - (4) Subdivision of one additional residential lot under the 1989 Zoning Law is permissible in accordance with § 164-45.1D.  
[Added 1-24-2002 by L.L. No. 2-2002; amended 2-18-2010 by L.L. No. 1-2010]
- D. Siting guidelines for residential development. Residential subdivision within the AP-O District shall conform to the additional standards set forth in Subsection **D(2)(a)** and **(b)** below for all new residential development on parcels that have been certified for participation in the AP-O District.
- (1) Cluster subdivision is encouraged in the AP-O District to allow flexibility while preserving the agricultural viability and rural character of the land. All surficial soils classified as prime farmland soils (Class 1 and 2) or soils of statewide significance (Class 3 and 4) or black dirt soils should be avoided by subdivision development to the greatest extent practical. Other existing features, whose preservation would benefit the Town and the subdivision, should be avoided through sensitive design of the cluster subdivision. Such features include, but are not limited to:
    - (a) Groves of mature trees.
    - (b) Large individual trees.
    - (c) Hedgerows.
    - (d) Woodlands along roadways, property lines, and streams.
    - (e) Scenic vistas.
    - (f) Water features, such as streams, ponds, floodplains, lakes and wetlands.
    - (g) Stone walls.
    - (h) Steep slopes in excess of 15%.
    - (i) Habitats of endangered or threatened species.
    - (j) Visually prominent agricultural landscape features, such as fields, pastures and meadows on knolls and hilltops.
    - (k) Historic structures or sites.
    - (l) Similar irreplaceable assets.
  - (2) Residential structures in the AP-O District should be located according to the following guidelines, which are listed in order of significance (some of which may conflict with each other on a particular site, in which case, the Planning Board may use its discretion to resolve such conflicts):
    - (a) On the least fertile agricultural soils and in a manner which maximizes the usable area remaining for agricultural use;
    - (b) Away from the boundaries of any preserved farm, to reduce conflicting uses in areas where farmers have made long-term commitments to continue to farm;
    - (c) In such a manner that the boundaries between house lots and active farmland are well buffered by vegetation, topography, roads or other barriers to minimize potential conflict between residential and agricultural uses;



January 15, 2016



Attention: Town of Warwick Planning Board & Town Board

Subject: Application for Inclusion in Ag Overlay District

Please consider this my formal application for inclusion in the Agricultural Overlay District. Besides the formal Request for Participation form and a copy of my deed indicating legal ownership of the property, I would like to make you aware of some additional information that might be favorable in terms of considering my request:

1. I have filed my Agricultural Assessment Renewal Certification with the Town Assessor for 2 consecutive years.
2. Besides my property being in the AP-O District (Ag District #2), my property is virtually surrounded by either properties that have been accepted as PDR properties or Town of Warwick parkland, making my property an ideal candidate for participation in the Ag Overlay District.
3. I have consulted with the Orange County Soil and Water Conservation District and they prepared a Farm Conservation Plan for me In December, 2015 (see Attachment)
4. My property contains soils of statewide significance. (see Attachment) — do?
5. I (and by extension my property) am a member of the Northeast Organic Farming Association (NOFA) and the Northeast Hops Alliance.
6. I have consulted with the Cornell Cooperative Extension and in December, 2015 they conducted extensive soil sampling. (see Attachment)
7. I work extensively with Lehman & Getz in order to insure compliance with zoning and environmental code(s).
8. Since purchasing the property in 2011 I have overseen a rather extensive array of farming and agricultural activities (see attached). Many more activities are on the short-term and long-term horizon, including but not limited to the planting of hops, Christmas trees, and fruit trees.

I look forward to being invited to participate in the Ag Overlay District.

Sincerely,

  
Dan Doyle

10 Fence Road

Warwick, NY 10990

Tax Map Number 17-1-37.2

12/2015

**Farm Conservation Plan for:**

Oasis At Warwick  
10 Fence Road  
Warwick NY, 10990

**Prepared by:**

Orange County Soil and Water Conservation District  
225 Dolson Ave.  
Suite 103  
Middletown NY, 10940

**Owner/Operator:**

Dan Doyle  
10 Fence Road  
Warwick NY, 10990

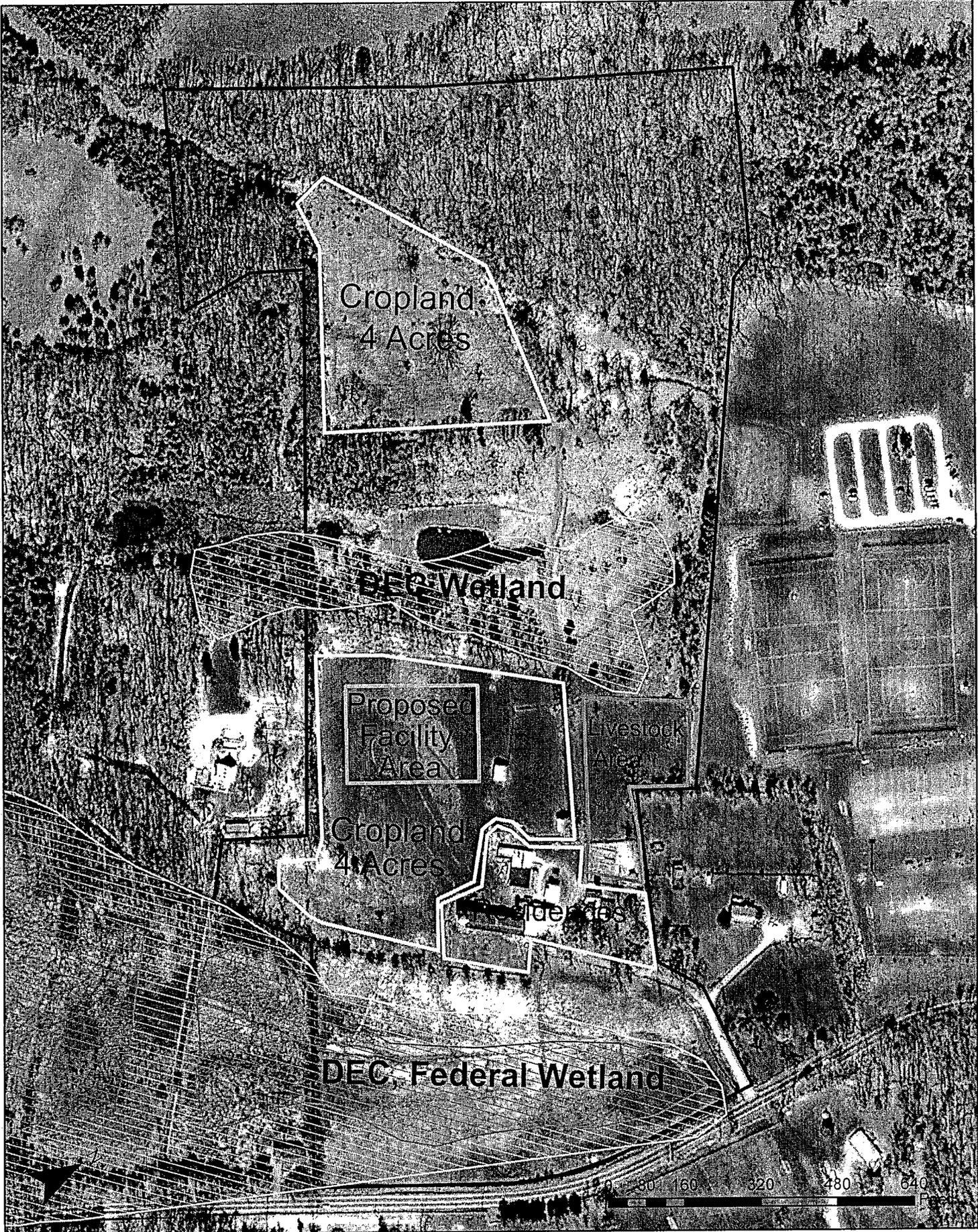
**Basic farm information:** Oasis At Warwick is a 47.4 acre parcel in the Town of Warwick, Orange County NY. Dan Doyle purchased the property in 2011 and has been raising some vegetables and a flock of 50 laying hens. Another farmer raises a small amount of pigs and goats on the property, as well as cutting hay from two fields. Wetlands encompass a significant portion of the farm property and Dan has expressed his desire to keep these areas in a healthy state through good cropland management.

**Farm Status:** Dan Doyle is in the beginning stages of establishing a viable farm operation - deciding what crops to grow and where to place them. He plans to establish a hop-yard that will supply a farmstead brewery, as well as grow additional crops for brewing and supplying a proposed farm-to-table restaurant. Dan does not plan to carry out the farming himself and is looking for an interested farmer to manage the crops.

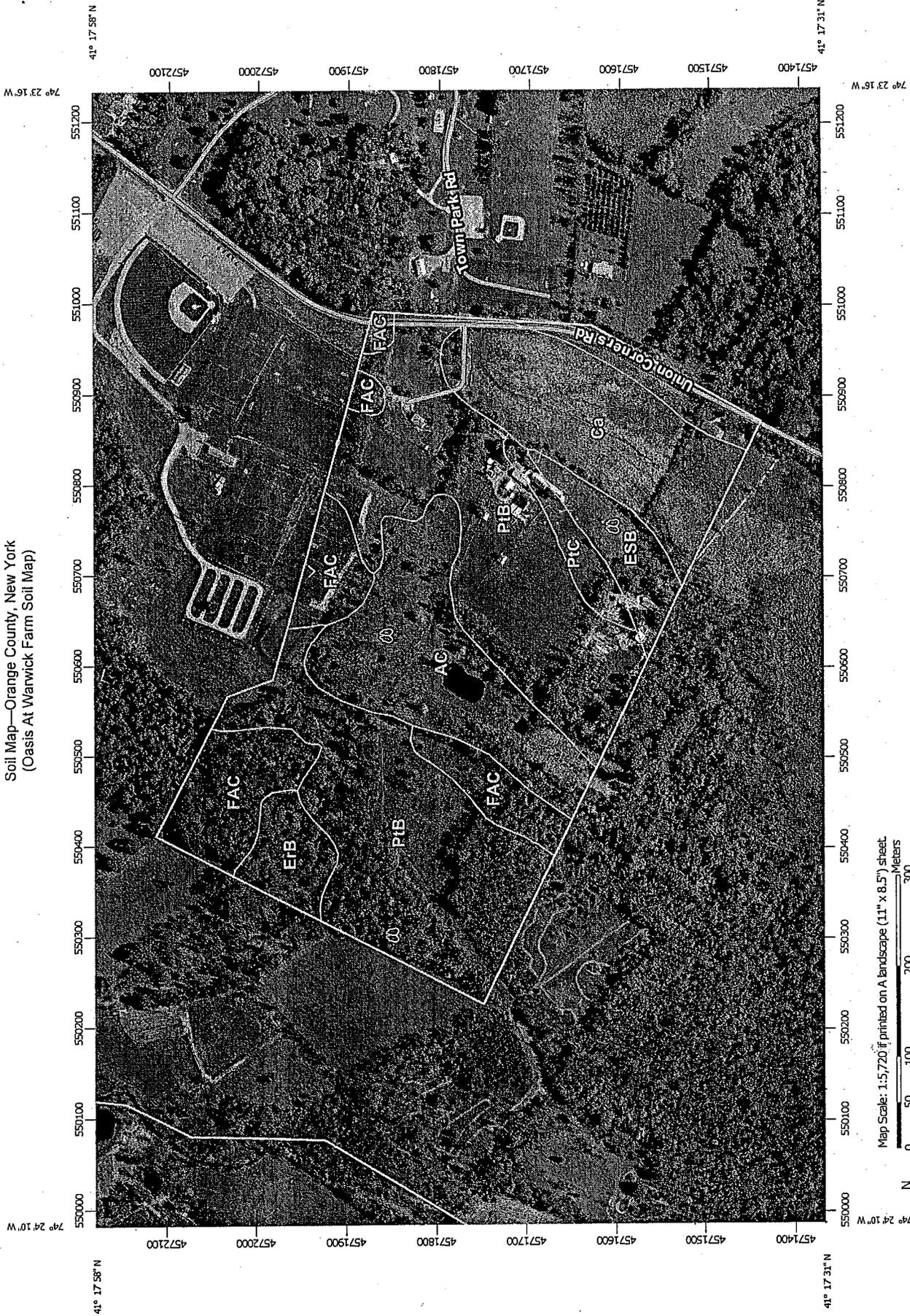
<b>Planned Conservation</b>	<b>Treatment</b>
Farmstead Water Supply	There are two drilled wells from previous owner on the property that supply three residences. They are both located downslope from croplands and barnyards not receiving nutrient/chemical inputs.
Stream and Floodplains Management	The wetlands and pond/stream on property appear very healthy and have a vegetated buffer greater than 100 feet. Pond is sited downslope from future croplands, which should be considered when tilling or applying fertilizers.
Livestock Heavy Use Area	Low animal population makes

	surface/groundwater contamination less likely, although the barnyard area is mostly bare soil and not easily cleaned. These barnyards would benefit from clean water exclusion through gutters.
Soil Management	While there is not much cropland in production currently, as the farm expands, the use of cover crops and high residue crops will help protect and conserve soil resources in times when the soil is usually exposed.
Waste Disposal	All dead animals and waste products responsibly removed from site.
Water Borne Pathogens	Animal housing areas have no clean water exclusion which could reduce potential for contamination. Surface water from the livestock areas run 100 ft over a vegetated area to the nearest surface water body.

# Doyle Farm, Warwick NY



Soil Map—Orange County, New York  
(Oasis At Warwick Farm Soil Map)



Map Scale: 1:5,720 if printed on A landscape (11" x 8.5") sheet.

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84



## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>  
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Orange County, New York  
Survey Area Data: Version 16, Sep 24, 2015

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 20, 2011—Oct 10, 2011

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## MAP LEGEND

	Area of Interest (AOI)		Soil Map Unit Polygons
	Soil Map Unit Lines		Soil Map Unit Points
	Special Point Features		Water Features
	Blowout		Streams and Canals
	Borrow Pit		Transportation
	Clay Spot		Rails
	Closed Depression		Interstate Highways
	Gravel Pit		US Routes
	Gravelly Spot		Major Roads
	Landfill		Local Roads
	Lava Flow		Background
	Marsh or swamp		Aerial Photography
	Mine or Quarry		
	Miscellaneous Water		
	Perennial Water		
	Rock Outcrop		
	Saline Spot		
	Sandy Spot		
	Severely Eroded Spot		
	Sinkhole		
	Slide or Slip		
	Sodic Spot		

## Map Unit Legend

Orange County, New York (NY071)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
AC	Alden extremely stony soils	10.5	14.9%
Ca	Canandaigua silt loam	10.3	14.6%
ErB	Erie gravelly silt loam, 3 to 8 percent slopes	2.4	3.4%
ESB	Erie extremely stony soils, gently sloping	3.0	4.2%
FAC	Farmington silt loam, sloping	9.0	12.8%
PtB	Pittsfield gravelly loam, 3 to 8 percent slopes	33.6	47.8%
PtC	Pittsfield gravelly loam, 8 to 15 percent slopes	1.7	2.4%
<b>Totals for Area of Interest</b>		<b>70.4</b>	<b>100.0%</b>

## Map Unit Description (Brief, Generated)

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this report, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

The Map Unit Description (Brief, Generated) report displays a generated description of the major soils that occur in a map unit. Descriptions of non-soil (miscellaneous areas) and minor map unit components are not included. This description is generated from the underlying soil attribute data.

Additional information about the map units described in this report is available in other Soil Data Mart reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the Soil Data Mart reports define some of the properties included in the map unit descriptions.

## Report—Map Unit Description (Brief, Generated)

### Orange County, New York

**Map Unit:** AC—Alden extremely stony soils

**Component:** Alden, extremely stony (75%)

The Alden, extremely stony component makes up 75 percent of the map unit. Slopes are 0 to 3 percent. This component is on depressions. The parent material consists of a silty mantle of local deposition overlying loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is very poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is not flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during January, February, March, April, May, June, November, December. Organic matter content in the surface horizon is about 7 percent. Nonirrigated land capability classification is 7s. This soil meets hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 1 percent.

**Component: Wayland (5%)**

Generated brief soil descriptions are created for major components. The Wayland soil is a minor component.

**Component: Palms (5%)**

Generated brief soil descriptions are created for major components. The Palms soil is a minor component.

**Component: Lyons (5%)**

Generated brief soil descriptions are created for major components. The Lyons soil is a minor component.

**Component: Erie (5%)**

Generated brief soil descriptions are created for major components. The Erie soil is a minor component.

**Component: Canandaigua (5%)**

Generated brief soil descriptions are created for major components. The Canandaigua soil is a minor component.

**Map Unit: Ca—Canandaigua silt loam****Component: Canandaigua (75%)**

The Canandaigua component makes up 75 percent of the map unit. Slopes are 0 to 1 percent. This component is on depressions. The parent material consists of silty and clayey glaciolacustrine deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is frequently ponded. A seasonal zone of water saturation is at 0 inches during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 7 percent. Nonirrigated land capability classification is 4w. This soil meets hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 1 percent.

**Component: Raynham (5%)**

Generated brief soil descriptions are created for major components. The Raynham soil is a minor component.

**Component: Palms (5%)**

Generated brief soil descriptions are created for major components. The Palms soil is a minor component.

**Component: Madalin (5%)**

Generated brief soil descriptions are created for major components. The Madalin soil is a minor component.

**Component: Halsey (5%)**

Generated brief soil descriptions are created for major components. The Halsey soil is a minor component.

**Component: Alden (5%)**

Generated brief soil descriptions are created for major components. The Alden soil is a minor component.

**Map Unit: ErB—Erie gravelly silt loam, 3 to 8 percent slopes****Component: Erie (80%)**

The Erie component makes up 80 percent of the map unit. Slopes are 3 to 8 percent. This component is on hills, till plains, drumlinoid ridges. The parent material consists of loamy till derived from siltstone, sandstone, shale, and limestone. Depth to a root restrictive layer, fragipan, is 10 to 21 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 3w. This soil does not meet hydric criteria.

**Component: Wurtsboro (5%)**

Generated brief soil descriptions are created for major components. The Wurtsboro soil is a minor component.

**Component: Mardin (5%)**

Generated brief soil descriptions are created for major components. The Mardin soil is a minor component.

**Component: Bath (5%)**

Generated brief soil descriptions are created for major components. The Bath soil is a minor component.

**Component: Alden (5%)**

Generated brief soil descriptions are created for major components. The Alden soil is a minor component.

**Map Unit:** ESB—Erie extremely stony soils, gently sloping**Component:** Erie, extremely stony (80%)

The Erie, extremely stony component makes up 80 percent of the map unit. Slopes are 3 to 8 percent. This component is on drumlinoid ridges, hills, till plains. The parent material consists of loamy till derived from siltstone, sandstone, shale, and limestone. Depth to a root restrictive layer, fragipan, is 10 to 21 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 12 inches during January, February, March, April, May, December. Organic matter content in the surface horizon is about 5 percent. Nonirrigated land capability classification is 7s. This soil does not meet hydric criteria.

**Component:** Wurtsboro (5%)

Generated brief soil descriptions are created for major components. The Wurtsboro soil is a minor component.

**Component:** Mardin (5%)

Generated brief soil descriptions are created for major components. The Mardin soil is a minor component.

**Component:** Bath (5%)

Generated brief soil descriptions are created for major components. The Bath soil is a minor component.

**Component:** Alden (5%)

Generated brief soil descriptions are created for major components. The Alden soil is a minor component.

**Map Unit:** FAC—Farmington silt loam, sloping**Component:** Farmington (75%)

The Farmington component makes up 75 percent of the map unit. Slopes are 8 to 15 percent. This component is on ridges, benches, till plains. The parent material consists of loamy till or congeliturbate derived from limestone, dolomite, shale, and sandstone, and in many places mixed with wind and water deposits. Depth to a root restrictive layer, bedrock, lithic, is 10 to 20 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is very low. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 3 percent.

**Component: Rock outcrop (5%)**

Generated brief soil descriptions are created for major components. The Rock outcrop soil is a minor component.

**Component: Pittsfield (5%)**

Generated brief soil descriptions are created for major components. The Pittsfield soil is a minor component.

**Component: Nassau (5%)**

Generated brief soil descriptions are created for major components. The Nassau soil is a minor component.

**Component: Mardin (5%)**

Generated brief soil descriptions are created for major components. The Mardin soil is a minor component.

**Component: Arnot (5%)**

Generated brief soil descriptions are created for major components. The Arnot soil is a minor component.

**Map Unit: PtB—Pittsfield gravelly loam, 3 to 8 percent slopes**

**Component: Pittsfield (75%)**

The Pittsfield component makes up 75 percent of the map unit. Slopes are 3 to 8 percent. This component is on drumlinoid ridges, till plains, hills. The parent material consists of calcareous loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

**Component: Paxton (5%)**

Generated brief soil descriptions are created for major components. The Paxton soil is a minor component.

**Component: Mardin (5%)**

Generated brief soil descriptions are created for major components. The Mardin soil is a minor component.

**Component: Hollis (5%)**

Generated brief soil descriptions are created for major components. The Hollis soil is a minor component.

**Component: Charlton (5%)**

Generated brief soil descriptions are created for major components. The Charlton soil is a minor component.

**Component: Bath (5%)**

Generated brief soil descriptions are created for major components. The Bath soil is a minor component.

**Map Unit: PtC—Pittsfield gravelly loam, 8 to 15 percent slopes****Component: Pittsfield (75%)**

The Pittsfield component makes up 75 percent of the map unit. Slopes are 8 to 15 percent. This component is on hills, till plains, drumlinoid ridges. The parent material consists of calcareous loamy till. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 4 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

**Component: Paxton (5%)**

Generated brief soil descriptions are created for major components. The Paxton soil is a minor component.

**Component: Mardin (5%)**

Generated brief soil descriptions are created for major components. The Mardin soil is a minor component.

**Component: Hollis (5%)**

Generated brief soil descriptions are created for major components. The Hollis soil is a minor component.

**Component: Charlton (5%)**

Generated brief soil descriptions are created for major components. The Charlton soil is a minor component.

**Component: Bath (5%)**

Generated brief soil descriptions are created for major components. The Bath soil is a minor component.

**Data Source Information**

Soil Survey Area: Orange County, New York  
Survey Area Data: Version 16, Sep 24, 2015

# Quaker Creek and tribs ( 1306-0025)

Impaired Seg

## Waterbody Location Information

Revised: 12/17/2007

**Water Index No:** H-139-13-59  
**Hydro Unit Code:** 02020007/060      **Str Class:** C  
**Waterbody Type:** River  
**Waterbody Size:** 41.5 Miles  
**Seg Description:** entire stream and tribs

**Drain Basin:** Lower Hudson River  
Rondout River  
**Reg/County:** 3/Orange Co. (36)  
**Quad Map:** MONROE (P-24-4)

## Water Quality Problem/Issue Information (CAPS indicate MAJOR Use Impacts/Pollutants/Sources)

Use(s) Impacted	Severity	Problem Documentation
AQUATIC LIFE	Impaired	Known
Aesthetics	Stressed	Suspected

### Type of Pollutant(s)

Known: ---  
Suspected: D.O./OXYGEN DEMAND, WATER LEVEL/FLOW, NUTRIENTS, Silt/Sediment  
Possible: Pesticides

### Source(s) of Pollutant(s)

Known: ---  
Suspected: AGRICULTURE (muckland farms), HYDRO MODIFICATION, Municipal (Florida WWTP)  
Possible: Streambank Erosion

## Resolution/Management Information

**Issue Resolvability:** 1 (Needs Verification/Study (see STATUS))  
**Verification Status:** 2 (Problem Verified, Cause Unknown)  
**Lead Agency/Office:** DOW/BWAR      **Resolution Potential:** Medium  
**TMDL/303d Status:** 3b (Waterbody Requiring Verification of Cause/Pollutant)

## Further Details

### Overview

Aquatic life support and aesthetics of Quaker Creek are thought to be impacted by low dissolved oxygen in the stream. Significant biological impacts were noted. Some of the impacts are thought to be exacerbated by low flow/hydromodification and sluggish stream currents.

### Water Quality Sampling

A biological (macroinvertebrate) survey of Quaker Creek was conducted at multiple sites between Snufftown and Florida in 1994 and 1995. Both surveys indicated moderately to severely impacted water quality in some reaches of the creek. Sampling during drought conditions in 1995 found daytime D.O. to be as low as 3.1 mg/l. The biological impact was reflective of municipal discharges, in this case from the Florida (v) WWTP. However, the plant had been upgraded in 1993 and all indications are that it is operating properly. Other hydrologic conditions such as the slow-moving sluggish flow of the creek, the withdrawal of water for irrigation and the low flow/drought conditions are thought to exacerbate the effect of the sewage effluent, and hinders the recovery of the creek. (Quaker Creek Biological Assessment Report, Bode et al, DEC/DOW, BWAM, January 1996)

### Source Assessment

The stream flows through a muckland area where onion farming is intensive. Soil erosion and other agricultural runoff

from the onion farming along creek affects water clarity and aesthetics and influence water quality. (DEC/DOW, Region 3, 1996)

#### Section 303(d) Listing

Quaker Creek is included on the NYS 2006 Section 303(d) List of Impaired Waters. The lake is included on Part 3b of the List as a Water Requiring Verification of Cause/Pollutant because the specific cause of the low dissolved oxygen have not been identified.

#### Segment Description

This segment includes the entire stream and all tribs. The waters of the stream are Class C. Tribs to this reach/segment, including Stony Creek (-3), are also Class C.



#### Pesticide Concerns

In 1997 NYSDEC conducted a monitoring effort on Hudson River tributaries as part of the Contamination Assessment and Reduction Project (CARP) to evaluate potential sources of toxic chemicals to the Hudson and New York Harbor. Results from this monitoring found the Wallkill to have the highest concentrations of DDT (by factor of 10) and dieldrin of all tribs tested. Follow-up monitoring indicate the DDT source is located in the "black dirt" area (see Wallkill River segment 1306-0017). The study (Toxics Organics Survey: Hudson, Wallkill and Hackensack Rivers, Litten et al, DEC/DOW, BWAM, October 1999) concludes that while the impact of this source on the Hudson is unclear, it does affect the entire length of the Wallkill. High DDT concentrations were also confirmed by bottom sediment coring in the Sturgeon Pool (below New Paltz). This monitoring also found the highest concentrations to be in the uppermost layer of sediments; suggesting (but not proving) DDT releases are continuing. (DEC/DOW, BWAM/Special Studies Section and Sediment Assessment Unit, September 1999).

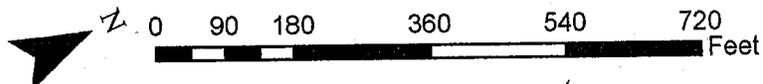
#### Previous Sampling

An extensive 1994 Biological Assessment of the river found slight water quality impacts along most of the length of the river. Evaluation of the monitoring results indicated nonpoint agricultural sources and siltation to be the likely causes of the impacts. These conditions represented a significant improvement over moderate to severe impacts documented in 1972 prior to the upgrade of sewage treatment plants serving Middletown, Wallkill, Montgomery and Walden. This portion of the river has historically suffered from high turbidity which colors the water. Urban runoff also affects the river aesthetics. (Wallkill River Biological Assessment Report, Bode et al, DEC/DOW, BWAM/SBU, September 1995)

This segment includes the main stem of the Wallkill River from the Shawangunk Kill (-19) in Tuthill to Rio Grande (-53) near Middletown. The waters of this portion of the stream are Class B. Lower/Upper Wallkill River are listed separately.



# Warwick 17-1-37.2



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Orange Co Coop Ext  
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Ulster County Coop Ext  
(Tree Fruit Expert.)

DAN DOYLE  
10 FENCE RD  
WARWICK, NY 10990

Lab Sample ID: 72078180  
Field/Location: BACK FIELD SUB SURFACE  
Date Sampled: 12/04/2015  
Date Tested: 12/24/2015  
Statement ID: DAN DOYLE  
Description:  
County: Orange

F

Emails/Phones: Orange Co Coop Ext: jks236@cornell.edu, DAN DOYLE:  
discgolfdan@yahoo.com, DAN DONAHUE: djd13@cornell.edu

Element	lbs/acre*	Very Low	Low	Optimum	High	Very High
Phosphorus (P)	2	[Bar chart showing level in Very Low range]				
Potassium (K)	137	[Bar chart showing level in Low range]				
Calcium (Ca)	1,365	[Bar chart showing level in Very Low range]				
Magnesium (Mg)	262	[Bar chart showing level in Very Low range]				

Element	Value	Element	Value	Element	Value
Soil pH	5.4	Manganese (Mn), lbs/acre	46	% OM	3.9
Buffer pH	6.0	Zinc (Zn), lbs/acre	1		
Iron (Fe), lbs/acre	9	Aluminum (Al), lbs/acre	113		

**Sample Information Summary**

Soil Name: Pittsfield                      Crop Code: APP  
Sample Depth: Subsurface                  Type: Pre-Plant  
Ground Cover: No

**Soil Fertilizer Recommendations (1=current yr, 2=next yr, etc.)**

Year	Crop	tons / acre		lbs / acre	
		Lime	N Range	P2O5 Range	K2O
1	Apples	7.50	0	130	330.00

**Comments - Improve yield and plant quality as well as protect the environment with proper fertilization.**

\* Modified Morgan analysis results reported in pounds per acre.

For assistance interpreting your report, contact your local Cooperative Extension office at 845-344-1234 or <http://cce.cornell.edu/Pages/Default.aspx> for a complete list of Cornell Cooperative Extension offices.

Nutrient recommendations provided by Cornell University.

These are general comments. Always consult with your crop adviser for recommendations specific to your farm.

- If old grass sod, straw, or cover crop is to be plowed down, apply 40 lbs/acre of N before plowing a year prior to planting.
- Apply starter solution at transplanting and 0.25 lbs/tree of calcium nitrate (0.6 oz N) after foliage begins to develop.
- Requirements for established orchards are best determined from leaf analyses in conjunction with soil analyses.
- Lime rate is for 100% ENV. To calculate actual rate: rate to use = recommended rate/ENV (of lime source) x 100.

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DAN DONAHUE

DAN DOYLE  
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WARWICK, NY 10990

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Ithaca, NY 14850  
Phone: (800) 344-2697  
Fax: (607) 257-1350  
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and Life Sciences



**Agro-One**  
Agronomy Services

Lab Sample ID:	<b>72078180</b>
Field/Location:	BACK FIELD SUB SURFACE
Date Sampled:	12/04/2015
Date Tested:	12/24/2015
Statement ID:	DAN DOYLE
Description:	
County:	Orange

**F**

Emails/Phones: Orange Co Coop Ext: jks236@cornell.edu, DAN DOYLE:  
discgolfdan@yahoo.com, DAN DONAHUE: djd13@cornell.edu

- Apply dolomitic lime containing at least 10% Mg.
- Apply 100 lbs Mg/acre as sulfates of Mg.
- Apply fertilizers and thoroughly incorporate the season prior to planting.
- Lime should be applied and incorporated during the year before planting.
- Apply and plow down 2/3 of the recommended lime (up to 4 tons/acre). Then disk the remaining lime into the surface soil.

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Orange Co Coop Ext  
DAN DONAHUE

Lab Sample ID: 72078189  
Field/Location: BACK FIELD SURFACE  
Date Sampled: 12/04/2015  
Date Tested: 12/24/2015  
Statement ID: DAN DOYLE  
Description:  
County: Orange

F

DAN DOYLE  
10 FENCE RD  
WARWICK, NY 10990

Emails/Phones: Orange Co Coop Ext: jks236@cornell.edu, DAN DOYLE:  
discgolf@dan@yahoo.com, DAN DONAHUE: djd13@cornell.edu

Element	lbs/acre*	Very Low	Low	Optimum	High	Very High
Phosphorus (P)	2	████████████████████				
Potassium (K)	156	████████████████████				
Calcium (Ca)	1,213	████████████████████				
Magnesium (Mg)	211	████████████████████				

Element	Value	Element	Value	Element	Value
Soil pH	5.1	Manganese (Mn), lbs/acre	51	% OM	4.0
Buffer pH	5.9	Zinc (Zn), lbs/acre	1		
Iron (Fe), lbs/acre	14	Aluminum (Al), lbs/acre	141		

**Sample Information Summary**

Soil Name: Pittsfield                      Crop Code: APP  
Sample Depth: Surface                      Type: Pre-Plant  
Ground Cover: No

**Soil Fertilizer Recommendations (1=current yr, 2=next yr, etc.)**

Year	Crop	tons / acre		lbs / acre	
		Lime	N Range	P2O5 Range	K2O
1	Apples	7.50	0	130	330.00

**Comments - Improve yield and plant quality as well as protect the environment with proper fertilization.**

- \* Modified Morgan analysis results reported in pounds per acre.
- For assistance interpreting your report, contact your local Cooperative Extension office at 845-344-1234 or <http://cce.cornell.edu/Pages/Default.aspx> for a complete list of Cornell Cooperative Extension offices.
- Nutrient recommendations provided by Cornell University.
- These are general comments. Always consult with your crop adviser for recommendations specific to your farm.
- If old grass sod, straw, or cover crop is to be plowed down, apply 40 lbs/acre of N before plowing a year prior to planting.
- Apply starter solution at transplanting and 0.25 lbs/tree of calcium nitrate (0.6 oz N) after foliage begins to develop.
- Requirements for established orchards are best determined from leaf analyses in conjunction with soil analyses.
- Lime rate is for 100% ENV. To calculate actual rate: rate to use = recommended rate/ENV (of lime source) x 100.

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Lab Sample ID:	72078189
Field/Location:	BACK FIELD SURFACE
Date Sampled:	12/04/2015
Date Tested:	12/24/2015
Statement ID:	DAN DOYLE
Description:	
County:	Orange

F

Emails/Phones: Orange Co Coop Ext: jks236@cornell.edu, DAN DOYLE:  
discgolfdan@yahoo.com, DAN DONAHUE: djd13@cornell.edu

- Apply dolomitic lime containing at least 10% Mg.
- Apply 100 lbs Mg/acre as sulfates of Mg.
- Apply fertilizers and thoroughly incorporate the season prior to planting.
- Lime should be applied and incorporated during the year before planting.
- Apply and plow down 2/3 of the recommended lime (up to 4 tons/acre). Then disk the remaining lime into the surface soil.

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Lab Sample ID: 72078190  
Field/Location: MAIN FIELD  
Date Sampled: 12/04/2015  
Date Tested: 12/24/2015  
Statement ID: DAN DOYLE  
Description:  
County: Orange

V

DAN DOYLE  
10 FENCE RD  
WARWICK, NY 10990

Emails/Phones: Orange Co Coop Ext: jks236@cornell.edu, DAN DOYLE:  
discgolfdan@yahoo.com, krb98@cornell.edu

Element	lbs/acre*	Very Low	Low	Optimum	High	Very High
Phosphorus (P)	2	██████████				
Potassium (K)	131	████████████████████				
Calcium (Ca)	1,901	████████████████████				
Magnesium (Mg)	292	████████████████████				

Element	Value	Element	Value	Element	Value
Soil pH	6.0	Manganese (Mn), lbs/acre	34	% OM	ORGANIC MATTER 3.8
Buffer pH	6.1	Zinc (Zn), lbs/acre	1		
Iron (Fe), lbs/acre	6	Aluminum (Al), lbs/acre	77		

Crop History (1 = last year, etc.)		Sample Information Summary	
Year	Crop	Soil Name: Pittsfield	Crop Code: MIX
	No History	Tillage Depth: No Till	Type: Pre-Plant
		Drainage: Not Specified	
		% Legume: 100% Non-legume	

Soil Fertilizer Recommendations (1=current yr, 2=next yr, etc.)		tons / acre		lbs / acre	
Year	Crop	Lime	N Range	P2O5 Range	K2O
1	Mixed Vegetables	1.00	120 - 140	120	80.00
2	Mixed Vegetables	0.00	120 - 140	120	80.00
3	Mixed Vegetables	0.00	120 - 140	120	80.00

**Comments - Improve yield and plant quality as well as protect the environment with proper fertilization.**

\* Modified Morgan analysis results reported in pounds per acre.

For assistance interpreting your report, contact your local Cooperative Extension office at 845-344-1234 or <http://cce.cornell.edu/Pages/Default.aspx> for a complete list of Cornell Cooperative Extension offices.

Nutrient recommendations provided by Cornell University.

These are general comments. Always consult with your crop adviser for recommendations specific to your farm.

Yr1 Lime rate is for 100% ENV. To calculate actual rate: rate to use = recommended rate/ENV (of lime source) x 100.

Yr1 Do not exceed 80 - 100 lbs/acre of N + K2O in the fertilizer band. If more K2O is required, plowdown or broadcast before planting.

Yr1 K2O fertilizer recommendation above appropriate for coarse or moderately coarse soils normally used in vegetable crop production.

Yr1 Apply 100 lbs/acre of N at or near planting time.

LIME WILL RAISE PH  
WANT IT AT 6.7

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Lab Sample ID:	72078190
Field/Location:	MAIN FIELD
Date Sampled:	12/04/2015
Date Tested:	12/24/2015
Statement ID:	DAN DOYLE
Description:	
County:	Orange

V

DAN DOYLE  
10 FENCE RD  
WARWICK, NY 10990

Emails/Phones: Orange Co Coop Ext: jks236@cornell.edu, DAN DOYLE:  
discgolfdan@yahoo.com, krb98@cornell.edu

- Yr1 Broadcast 50% and apply the remainder in bands when setting plants.
- Yr1 Seeding: the fertilizer band should be 2 inches below the seed and 2 inches to the side of the row.
- Yr1 Sidedress 30 - 40 lbs/acre of N 3 to 4 weeks after thinning or setting the plants.
- Yr1 Additional sidedressed N should not be required unless there was leaching from heavy rains.
- Yr2 Do not exceed 80 - 100 lbs/acre of N + K2O in the fertilizer band. If more K2O is required, plowdown or broadcast before planting.
- Yr2 K2O fertilizer recommendation above appropriate for coarse or moderately coarse soils normally used in vegetable crop production.
- Yr2 Apply 100 lbs/acre of N at or near planting time.
- Yr2 Broadcast 50% and apply the remainder in bands when setting plants.
- Yr2 Seeding: the fertilizer band should be 2 inches below the seed and 2 inches to the side of the row.
- Yr2 Sidedress 30 - 40 lbs/acre of N 3 to 4 weeks after thinning or setting the plants.
- Yr2 Additional sidedressed N should not be required unless there was leaching from heavy rains.
- Yr3 Do not exceed 80 - 100 lbs/acre of N + K2O in the fertilizer band. If more K2O is required, plowdown or broadcast before planting.
- Yr3 K2O fertilizer recommendation above appropriate for coarse or moderately coarse soils normally used in vegetable crop production.
- Yr3 Apply 100 lbs/acre of N at or near planting time.
- Yr3 Broadcast 50% and apply the remainder in bands when setting plants.
- Yr3 Seeding: the fertilizer band should be 2 inches below the seed and 2 inches to the side of the row.
- Yr3 Sidedress 30 - 40 lbs/acre of N 3 to 4 weeks after thinning or setting the plants.
- Yr3 Additional sidedressed N should not be required unless there was leaching from heavy rains.



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Agronomy Services

Also sent to:  
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Lab Sample ID: **72078200**  
Field/Location: BEHIND BARN GARDEN  
Date Sampled: 12/04/2015  
Date Tested: 12/24/2015  
Statement ID: DAN DOYLE  
Description:  
County: Orange

V

DAN DOYLE  
10 FENCE RD  
WARWICK, NY 10990

Emails/Phones: Orange Co Coop Ext: jks236@cornell.edu, DAN DOYLE:  
discgolfdan@yahoo.com, krb98@cornell.edu

- Yr1 Broadcast 50% and apply the remainder in bands when setting plants.
- Yr1 Seeding: the fertilizer band should be 2 inches below the seed and 2 inches to the side of the row.
- Yr1 Sidedress 30 - 40 lbs/acre of N 3 to 4 weeks after thinning or setting the plants.
- Yr1 Additional sidedressed N should not be required unless there was leaching from heavy rains.
- Yr2 Do not exceed 80 - 100 lbs/acre of N + K2O in the fertilizer band. If more K2O is required, plowdown or broadcast before planting.
- Yr2 K2O fertilizer recommendation above appropriate for coarse or moderately coarse soils normally used in vegetable crop production.
- Yr2 Apply 100 lbs/acre of N at or near planting time.
- Yr2 Broadcast 50% and apply the remainder in bands when setting plants.
- Yr2 Seeding: the fertilizer band should be 2 inches below the seed and 2 inches to the side of the row.
- Yr2 Sidedress 30 - 40 lbs/acre of N 3 to 4 weeks after thinning or setting the plants.
- Yr2 Additional sidedressed N should not be required unless there was leaching from heavy rains.
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**Agro-One Soil Analysis**  
with Cornell Nutrient Guidelines

Also sent to:  
Orange Co Coop Ext

Agro-One  
730 Warren Road  
Ithaca, NY 14850  
Phone: (800) 344-2697  
Fax: (607) 257-1350  
www.dairyone.com



Cornell University  
College of Agriculture  
and Life Sciences



**Agro-One**  
Agronomy Services

Lab Sample ID: **72078210**  
Field/Location: PEN  
Date Sampled: 12/04/2015  
Date Tested: 12/24/2015  
Statement ID: DAN DOYLE  
Description:  
County: Orange

F

DAN DOYLE  
10 FENCE RD  
WARWICK, NY 10990

Emails/Phones: Orange Co Coop Ext: jks236@cornell.edu, DAN DOYLE:  
discgolfdan@yahoo.com, krb98@cornell.edu

- Hops can be deep rooted plants, up to 12 ft. Sites with well drained soils are preferable. Make sure you investigate if there are any impediments to drainage or root penetration. A minimum of 3ft of depth will allow roots to draw moisture from a greater area.
- If the ph is too high, above 7.2 , then consider adding sulfur to lower it. This requires more time to effect change than in the case of lime so allow for at least one full year before planting.
- Consider applying nutrients within the hop row and not applying to the drive rows.
- Banding nutrients in the hop row requires fertilizer rates to be adjusted to that given area., i.e. a 4 ft row width by 1000ft length is 4,000 square ft or about a tenth of an acre. However, in the case of lime calculations, these should include the entire field area as this will increase the availability of nutrients within the drive area.
- Hops require a great deal of water and will benefit from irrigation. Increasing organic matter content by incorporating a green manure crop or well composted materials will improve water holding capacity and root growth. The deeper these are worked into the soil the greater the benefit.
- Some nutrients can be applied through the irrigation system. This can be a good way to apply additional nitrogen and micronutrients at a time when the plant needs them.

# BUSHWICK

## METALS LLC

### New England Sales

Bridgeport, CT  
Phone: 800-221-0340  
Fax: 203-330-9578

### New York Sales

Melville, NY  
Phone: 888-828-7494  
Fax: 631-845-8065

### New Jersey Sales

Englewood, NJ  
Phone: 800-631-1543  
Fax: 201-567-9530

### Pennsylvania Sales

Parker Ford, PA  
Phone: 800-654-3441  
Fax: 610-495-9101

### Central NY Sales

Binghamton, NY  
Phone: 800-523-2554  
Fax: 607-775-1400

## Carbon & Stainless Steel

### Activity List

- HAY

- Maple Syrup

- Firewood

- Wild Raspberries, Grapes, Blueberries

- Crabapple Trees

- Wild Mushrooms

- Home-grown Mushrooms

- Fish from pond

- Deer Meat

- Vegetables

- Planted Fruit bushes (e.g. currants)

- Planted Fruit trees

- Chickens for meat

- Chicken eggs

- Goats for meat

- Goat milk

- Pigs for meat

- Grazing Areas for animals

- Wildflowers

- Grown flowers, e.g. sunflowers

- Corn

- Herbs & Greens

- Onions & Garlic

- Hops

SECTION BENDING • ROTARY TEE SPLITTING & STRAIGHTENING • PLATE DRILLING • TAPPING • MILLING  
COUNTER SINKING • HI-DEF PLASMA CUTTING • FLAME CUTTING • PLATE & SHEET FORMING/BENDING  
REBAR FABRICATION • PLATE ROLLING • SHEARING • CAMBERING • PUNCHING • SAW CUTTING  
DECK PRODUCTS/ROLL FORMING • SCRIBING • BAR THREADING • LINE BORING • PIPE NOTCHING