



SITE INVESTIGATION INFORMATION

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|---------------------------------------|-----------------------|------------------------------------|------------------------|--------------------------------|
| 1. SITE NAME CTI Agri-Cycle | 2. SITE NUMBER | 3. a. TOWNSHIP Cambridge | b. CITY/VILLAGE | 4. COUNTY Washington |
|---------------------------------------|-----------------------|------------------------------------|------------------------|--------------------------------|

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| 5. REGION 5 | 6. Address 311 Belle Road, Buskirk, NY 12028 |
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7. LOCATION OF SITE (Attach U.S.G.S. Topographic Map showing site location)

a. Quadrangle: Eagle Bridge

b. Site Latitude 42.988150 deg
Site Longitude -73.431644 deg.

c. Tax Map Numbers 271.-3-10; 271.-3-11.1; 271.-3-13; 271.-3-13.1; 271.-3-14; 280.-2-38; 280.-2-39 and 280.-2-40 (8 parcels)

8. BRIEFLY DESCRIBE THE SITE (Attach site plan showing disposal/sampling locations)

CTI Agri-cycle is a DMM permitted compost facility located off of Belle Road in the rural Town of Cambridge, Washington County. The Cover Technologies, Inc. (CTI) operation controls approximately 234 acres- 185 acres north of Belle Road and approximately 49 acres south of Belle Road. CTI acquired ownership of the facility and land in 2000 from the Wilmot family, who operated for many years, and were facing revocation of operating permits due to violations of state environmental conservation law. CTI Agri-Cycle began operations in 2001 under Department permit #5-5322-00022/00003 for yard waste and paper sludge composting under 6NYCRR Subpart 360-5. Bob Wilmot is employed as the site manager

The facility receives paper sludge from regional paper mills (approximately 5 paper mills) and mixes it with yard waste from various sources (Capital District towns and cities) to create a composted product similar to topsoil. The paper sludge/yard waste mixture is first managed in multiple long, 12-foot tall windrows for approximately 50 days before being spread onto nearby farm fields. The material is placed in lifts up to 5-feet thick, and allowed to compost for several years. Grasses are grown in the top, which helps to break down the paper sludge and compost materials. Some fields that received multiple applications have several feet of standing compost. An on-site storm water collection pond receives runoff from the compost processing yard and windrow management area. The area is hilly and the local water shed is south toward Whipple Brook, a tributary to the Hoosick River, 2 miles south of the site. Historic aerial footage indicates that compost was spread on farm fields that remain under Wilmot family control. In addition to the 234 acres currently under CTI control, **total potentially impacted acreage is estimated to be 305 acres.**

Sampling conducted by DER and DMM in 2017 documented PFAS compounds in the incoming paper sludge, and in all stages of compost production. Groundwater and surface water at the site are impacted by PFAS compounds. PFAS compounds were documented in downgradient drainage features, indicating the contamination has moved off-site.

| CTI Agri-Cycle Facility: PFAS Detections in Compost and Water (2017) | | | | |
|---|--------------------------|------------|------------|-----------------|
| Compost Matrix | Estimated Age | PFOA (ppb) | PFOS (ppb) | PFOS/PFOA (ppb) |
| Paper sludge | 0-days (incoming) | 1.6 | 25 | 26.6 |
| Yard waste | 0-days (incoming) | 0.91 | .076 | 1.68 |
| Windrow material | 50 days after blending | 3.4 | 8.5 | 11.9 |
| Finished compost | 5 years after blending | 28 | 72 | 100 |
| Field 8 [8-inch depth] | Pre-2007 | 5.3 | 160 | 165.3 |
| Water Matrix | Location | PFOA (ppt) | PFOS (ppt) | PFOS/PFOA (ppt) |
| Leachate | From windrows | 240 | 180 | 420 |
| Surface water | On-site storm water pond | 100 | 140 | 240 |
| Groundwater | On-site MW-2 | 170 | 96 | 266 |
| Surface Water | Off-site drainage (SCH2) | 190 | 29 | 219 |

a. Area 305 acres b. Completed: () Financial Assessment () PSA () IRM () RI/FS () Construction () O&M () Other:

9. HAZARDOUS WASTE DISPOSED (Include EPA Hazardous Waste Numbers)

PFAS-contaminated paper sludge mixed with yard waste, forming a composted material.

10. ANALYTICAL DATA AVAILABLE ()Air (X)Groundwater (X)Surface Water ()Sediment (X)Soil ()Waste (X)Leachate ()EPTox ()

Contravention of Standards or Guidance Values

No environmental standards are in effect for PFAS compounds in the above media.

11. CONCLUSION

Agri-cycle manufactured compost has been spread on numerous farm fields, covering approximately 305 acres. PFOS/PFOA was documented in all ten soil samples from eight different fields at levels ranging from 1.1 ppb to 165.3 ppb. SPLP analysis of the field samples indicate that 9 out of ten are capable of leaching PFOS/PFOA into groundwater at levels exceeding the USEPA HAL of 70 ppt. The finished compost has total PFOS/PFOA at 100 ppb. On-site groundwater has been impacted with PFOS/PFOA at 266 ppt. This site has the potential to be a substantial contributor to regional groundwater and surface water contamination and should be investigated further. Off-site distribution of finished compost has now been forbidden by DMM.

If Institutional Controls are Required: describe:

If so, are they documented? Y () N ()

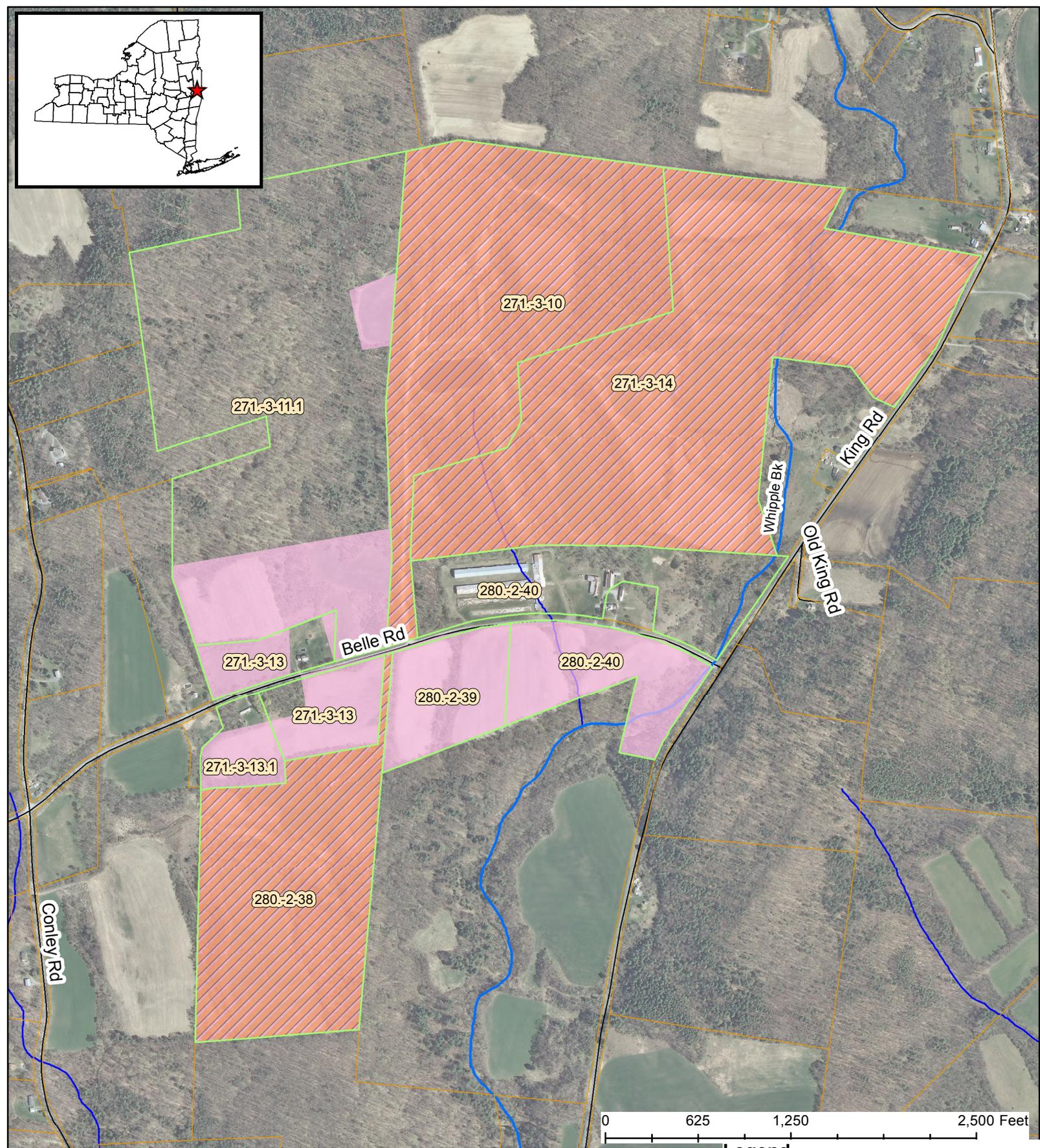
12. SITE DATA

| | | |
|--|---------------------|---|
| a. Nearest Surface Water: Distance 0 ft. | Direction: on-site | ID & Classification : Storm water retention pond |
| b. Nearest Groundwater: Depth 5-8 ft. | Flow Direction: SSE | (X)Sole Source ()Primary ()High Yield () Low Yield () Non Yield |
| c. Nearest Water Supply: Distance 1900 ft. | Direction: SSE | Active: (X) Yes () No |
| d. Nearest Building: Distance 1,800 | Direction: SSE | Character: Use: Family farm |
| e. Documented fish or wildlife mortality? | ()Y (X)N | h. Exposed hazardous waste? ()Y (X)N |
| f. Impact on special status fish or wildlife resource? | (X)Y ()N | i. EPA ID # HRS Score _____ |
| g. Controlled Site Access? | (X)Y ()N | j. WEB site address: |

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| 13. SITE OWNER'S NAME Agri Cycle of Washington County Inc | 14. ADDRESS 4 Open Square Way, Room 421, Holyoke MA 01040 | 15. TELEPHONE NUMBER |
|--|--|----------------------|

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|---|---|
| 16. PREPARER <i>Robert Corcoran</i> 4/13/18 Signature Date Robert Corcoran, PEI NSYSDEC Name, Title, Organization | 17. APPROVED <i>John B. Swartwout</i> 4/13/18 Signature Date John B. Swartwout, Section Chief Name, Title, Organization |
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| CTI Agri-Cycle Potentially Impacted Parcels | | | |
|---|------------|---|---------|
| Parcel Address | Parcel ID | Owner Mailing Address | ACREAGE |
| 311 Belle Rd | 271.-3-10 | Agri Cycle Of Washington County Inc 4 Open Square Way, Rm 421 Holyoke, MA 01040 | 73.42 |
| Belle Rd | [REDACTED] | [REDACTED] | 117.80 |
| [REDACTED] | [REDACTED] | [REDACTED] | 16.10 |
| [REDACTED] | [REDACTED] | [REDACTED] | 6.14 |
| King Rd | 271.-3-14 | CTI Demonstration Farm, INC 4 Open Square Way, Rm 421 Holyoke, MA 01040 | 108.66 |
| 308 Belle Rd | 280.-2-38 | CTI Demonstration Farms, INC 4 Open Square Way, Rm 421 Holyoke, MA 01040 | 51.35 |
| [REDACTED] | [REDACTED] | [REDACTED] | 14.80 |
| Belle Rd | [REDACTED] | [REDACTED] | 76.70 |

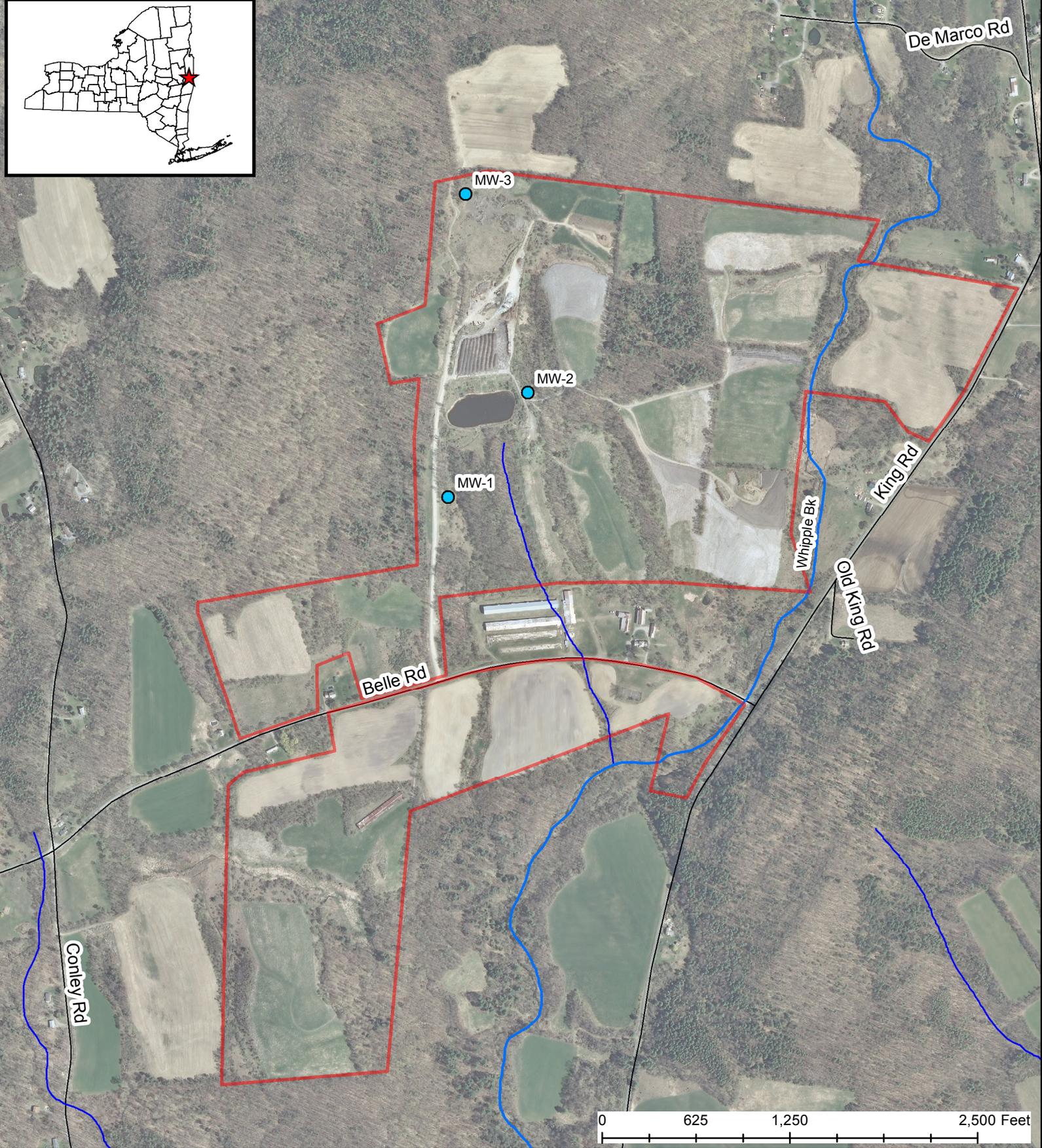


New York State Department of Environmental Conservation
CTI Agri-Cycle Composting Facility
311 Belle Road, Buskirk, NY 12028
Town of Cambridge, Washington County

- Legend**
-  Agri-Cycle Owned Parcels
 -  Non Agri-Cycle Owned (potentially impacted)
 -  Tax Parcels - Washington County (2016)
 - 271.-3-11.1 Tax Parcel ID

RKC
04/12/18

CTI Agri-Cycle Site Parcel Map



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Legend

-  Agri-Cycle Site (potentially impacted areas)
-  Monitoring Well
-  Named Stream
-  Unnamed Stream

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04/12/18

CTI Agri-Cycle Site Map